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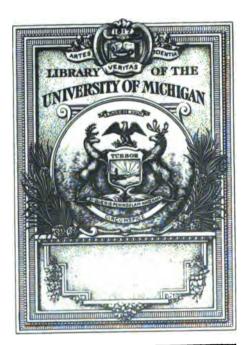
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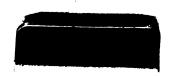
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SECOND REPORT

OF THE

Department of Agriculture

OF THE

State of Washington

TO THE

GOVERNOR

July 1, 1914, to June 30, 1916



"The productiveness of the earth must increase from generation to generation, this also is his obligation."

LETTER OF TRANSMITTAL.

STATE OF WASHINGTON, DEPARTMENT OF AGRICULTURE.

OLYMPIA, June 30, 1916.

To His Excellency, Ernest Lister, Governor of the State of Washington:

Sin: In compliance with law, I have the honor to submit herewith the Second Report of the Department of Agriculture, covering the period from July 1, 1914, to June 30, 1916, inclusive.

Your attention is respectfully directed to the valuable service rendered the Department by Dr. Ira D. Cardiff, Honorable E. E. Flood, and Dr. Granville Lowther, members of the Advisory Board, who have all assisted your Commissioner to the fullest possible extent in meeting the many perplexing problems with which we have been confronted from time to time.

This service, which has been had at practically no expense to the taxpayers of the state, has been of inestimable value and is gratefully appreciated.

Respectfully submitted,
H. T. Graves,
Acting Commissioner of Agriculture.

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ORGANIZATION OF DEPARTMENT.

Advisory Board.

Governor Ernest Lister, Chairman, Olympia, Wash.

Hon, E. E. Flood, Rosalia, Wash.

Dr. Granville Lowther, North Yakima, Wash.

Dr. Ira D. Cardiff, Pullman, Wash.

Dr. H. T. Graves, Acting Commissioner, Secretary, Olympia, Wash.

Department Officials.

- H. T. Graves, B. S., D. V. S., Acting Commissioner, in charge of Dairy and Livestock, Olympia, Wash.
- T. O. Morrison, B. S. Agr., Assistant Commissioner, Division of Horticulture, Olympia, Wash.
- J. J. Higgins, Assistant Commissioner, Division of Foods, Feeds, Fertilizers, Drugs, Oils and Bakery Inspection, Olympia, Wash.

Chemists.

Prof. Elton Fulmer, Pullman, Wash.*

Prof. Chas. W. Johnson, Seattle, Wash.

Prof. Geo. Olson, Pullman, Wash.

Bacteriologists.

Dr. E. P. Fick, Seattle, Wash.

Edith Hindman, Seattle, Wash.

Seed Analyst.

Katherine G. Stone, Olympia, Wash.

Veterinary Inspectors.

Dr. R. J. Donohue, Seattle.

Dr. G. F. Overhulse, Olympia.

Dr. J. H. Martin, Spokane.

Dairy Inspectors.

C. S. MacBride, Spokane,

G. G. Carman, Chehalis.

A. D. Fish, Seattle.

Marcus Dey, Seattle.

Horticultural inspectors.

F. E. DeSellem, North Yakima, Wash.

H. W. Samson, Spokane, Wash.

Luke Powell, Prosser, Wash.

R. L. Dalton, Olympia, Wash.

J. H. Brislawn, Everett, Wash.

F. N. Rhodes, Seattle, Wash.

Henry Huff, Sumner, Wash.

C. W. Gilbreath, Walla Walla, Wash.

I. R. Fletcher, Camas, Wash.

O. T. Clawson, Wenatchee, Wash.

^{*}Deceased, Feb. 20, 1916.

Food Inspectors.

Will H. Adams, Spokane, Wash.

Mrs. W. H. Coffin, Tacoma, Wash.

I. J. Minnick,* Spokane, Wash.

Drug Inspector.

Edward L. Jones, Ph. G., Spokane, Wash.

Oil inspectors.

S. P. Wilson, Chief Inspector, Seattle, Wash.

M. B. Laucks, Seattle, Wash.

Capt. John Gray, Spokane, Wash.

Office Force.

F. B. Fuller, Secretary, Olympia, Wash.

S. R. Holcomb, Weather Observer and Clerk, Olympia, Wash.

Miss Ruby Boucher, Stenographer, Olympia, Wash.

Miss Lillian Arens, Stenographer, Olympia, Wash.

^{*}Deceased, Feb. 20, 1916.

INTRODUCTION

ORGANIZATION OF DEPARTMENT.

Prior to the session of the State Legislature of 1913, the duties of the Department of Agriculture of the State of Washington, as at present constituted, were distributed among a number of independent departments. Each of these departments had its separate head and each performed its independent functions as defined by a number of state enactments. In some particulars several of these departments occupied more or less competitive fields. While each had assigned to it specific duties different from the others, nevertheless there were occasions when their activities to a greater or less extent were duplicated.

It was found that the operation of a great number of independent departments added to the expense of administration. Certain fixed charges were necessary in connection with each department, which, while not large perhaps with respect to any one, nevertheless in the aggregate added considerably to the expense of the taxpayers. This situation resulted not only in more or less confusion, but it was open to numerous other objections which the legislature in the year 1913 remedied upon the Governor's recommendation.

Naturally, also, there was a lack of co-operative effort and a tendency among the various departments to outdo each other in their respective fields, which created a situation obviously unsatisfactory when viewed from the standpoint of modern administrative methods.

Each of these various departments found it necessary at the recurring sessions of the legislature to make appeal for funds for the conduct of its work. A natural consequence of this condition was that some departments, the heads of which were more active or more successful in presenting their case to the appropriation committees, were able to secure larger appropriations than perhaps were necessary in the discharge of their duties, while others for a contrary reason were not sufficiently equipped to properly carry on their work.

One objection to the former system was found in the fact that the several departments were scattered about the state at different points. The locations of their respective headquarters were unknown to the large majority of citizens and hence it was a matter of difficulty for the people whom the state sought to serve to come into close and intimate contact with the agencies designed to serve them. These and other objections which from time to time manifested themselves resulted in a definite demand upon the State Legislature for a consolidation of a number of departments whose duties as defined by the state laws were to a great extent closely connected. This movement as above intimated climaxed in the year 1913 when the State Legislature adopted the act whereby the present Department of Agriculture of the State of Washington was created.

The department thus brought into existence is vested with all of the powers and is required to perform the duties previously appertaining to the following offices: The State Veterinarian, Dairy and Food Commissioner, Commissioner of Horticulture, State Oil Inspector, Bakery Inspector, State Fair Commission, and in the Washington State College, with respect to the licensing and registration of jacks and stallions, and with respect to the duties of the director of the Washington Agricultural Experiment Station as regards concentrated commercial feeding stuffs and commercial fertilizers used for manurial purposes.

Upon the consolidation of the above offices in the one department an investigation and close analysis of the duties required of them disclosed the fact as indicated above, that in several cases their activities were closely related. For convenience of administration, therefore, and for the purpose of securing added efficiency at the least possible expense, the work of the several offices was grouped around four general subdivisions, each having a deputy of the department at its head. These four divisions are known as, first, Dairy and Live Stock Division: second. Division of Horticulture: third, Division of Foods, Feeds, Fertilizers, Drugs, Oils and Bakery Inspection; fourth, the Division of Agriculture. Through the agency of these four divisions the many and important duties assigned to this department in the act of 1913 are performed. The general powers of the Commissioner authorize him to publish and to distribute bulletins dealing with the various phases of departmental activity and for the purpose of informing the public with regard to the work and results accomplished by the Department.

The Commissioner of Agriculture is the executive officer of the state for the enforcement of the regulatory laws relating to agriculture, and to the agricultural resources of the state. He is charged with the enforcement of numerous important police regulations having to do with the food supplies offered for sale to our citizens, to the drugs which they purchase, to the output of the bakeries scattered through the several hundred cities and towns of the commonwealth, and in many other ways the Department is intimately connected with the preservation of the health and well being of our people.

It is not contemplated in the act and it has not been the practice of the Department to enter the field already occupied by the state and government experimental stations. The problems of a more or less technical character touching upon the question of farm methods which are presented to the modern farmer who desires to get the best results from his operations belong to experts trained for that particular work. Such experts are maintained at the State College and the various experimental stations and to them are referred the matters which naturally would come under their consideration. It is a pleasure to state in this connection that the Department has at all times enjoyed the closest co-operation with the State College and the officials of the

various experimental stations who have invariably responded promptly and satisfactorily to every request for assistance or information that has been referred to them.

PURPOSE OF INTRODUCTORY CHAPTER.

It will be apparent from the foregoing that the Department of Agriculture is assigned a wide scope of activity. Its duties as defined by statute are many and varied. Reaching out from the state capitol the ramifications of the Department touch the citizens directly in the most remote corners of the state. It is believed that every citizen has a personal interest in the work of this Department. He helps through the taxation of his property to pay for its support. He has an interest in the success of its work from the standpoint of the preservation of the public health. He has a large interest in the work the Department is required to do in the inspection of the food products which are consumed on his table, and it is not stretching the facts by any means to assert that the comfort and well-being, and in many cases the lives of our citizens are dependent upon the proper discharge of the duties assigned by the Legislature to this Department.

The varied activities required of the Department suggest also in some measure the character and extent of the state's resources and industries. Realizing that this report will go to many who are not familiar with the natural conditions and the development that has taken place in this state, it has been deemed wise to present in connection with this report a brief statement descriptive of the climate, the soil, the products and industries of Washington, and of the people who are engaged in developing its manifold resources.

The purpose in view is to connect up for the benefit of the reader the duties required of this Department with the field in which those duties are performed. It is believed, for example, that the work of the Division of Dairying and Livestock will be better understood and more fully appreciated if some detailed insight is presented with respect to the extent and scope of the dairy and livestock industry.

A great many of the states of the Union maintain a regular department of horticulture. But how many of them can boast a single county with sixty thousand acres of commercial orchards annually contributing their products to the world's markets? The work of the seed inspector is common to nearly every state, but the importance of that work as related to our own commonwealth will appeal more strongly to the reader who is conversant with the acreage, the capital, and the labor employed in the great grain-growing industry of Washington. The following pages, therefore, will offer to the reader in as concise a form as possible such facts and figures as will enable him to visualize the field of activity in which the State Department of Agriculture is engaged.

The information presented has been secured from official and other reliable sources and will be found readily capable of verification.

NATURAL DIVISIONS OF THE STATE.

The State of Washington, by reason of several outstanding topographical features, is naturally divided into districts possessing widely varying characteristics. Not far distant from the Pacific Coast is the Olympic range of mountains which gives the name to and forms the dominant physical characteristic of the great district known as the Olympic Peninsula. Farther east the Cascade Mountains extend in a general northern and southern direction, forming what may be termed the backbone of Washington, dividing the state into regions vastly dissimilar in climate, soil, and other natural conditions. The Columbia River, a third important boundary line, enters the state in its northeast section and traverses its entire width in an irregular course, entering the Pacific Ocean at the extreme southwest corner. Based upon these natural lines of division, the state may be subdivided into the following sections:

First, the district located between the Pacific Ocean and the Olympic Mountains. Second, the great natural basin which lies between the Olympic and Cascade ranges. The chief physical feature of this district is the inland sea known as Puget Sound. Third, the Cascade Mountain range with its peaks surmounted by a perpetual covering of snow, forming the source of many of the streams which water the fertile valleys both in Eastern and Western Washington. Fourth, the territory north of the Columbia River, an extensive rolling country partly timbered, which has been given the name of the Okanogan Highlands. Fifth, the Columbia Plains lying south of the above district and east of the Cascade Mountain Range. Sixth, the Blue Mountain district which is located in the extreme southeastern section of the state. Seventh, a series of wide hills and valleys originally heavily timbered, located in the southwest section.

As may be expected from the widely different topographical conditions suggested by the foregoing, the industries and resources of the state are many and varied. These will be treated in turn in subsequent pages.

SOILS OF DIFFERENT SECTIONS OF THE STATE.

The Cascade Mountain range, by far the most important of Washington's dividing boundaries, separates the state into two great sections commonly known as Eastern and Western Washington. The soils of these two sections are of differing origin and likewise different in character and composition and with respect to the purposes for which they are best adapted. Generally speaking, the soils of Western Washington are of glacial origin, while the soils of Eastern Washington had their basis in the outflow of enormous volcanoes which had their period of activity in bygone ages.

Western Washington.

Sand, clay and gravels are the characteristic features of the soil which covers the mountains and foothills of Western Washington. In some places these deposits remain today much as they were left as the result of the original glacial movement. In the valleys, however, where the rocks have disintegrated and become pulverized by the passage of time and the processes of nature, aided by the continued deposit of silts from the rapid flowing mountain streams, and mixed with accumulations of decaying vegetation, a soil formation is presented which has proven extremely attractive to the farmer and truck gardener. At the mouth of several of the Western Washington streams where topographical conditions are favorable, a mixed soil made up of silt deposits combined with decayed organic matter has accumulated, and through actual demonstration has been found to yield remarkably of all manner of grain, grass and vegetable crops.

In some sections of Western Washington where lakes and marshes formerly covered the ground, now will be found a peat soil which under certain conditions has been found to yield profitable crops.

Soils of Eastern Washington.

As already noted, the characteristic feature of the soil of Eastern Washington is its volcanic origin. Great stretches of country lying eastward from the Cascade Mountain range are covered to a vast depth with what is commonly termed volcanic ash. Like the soils of Western Washington, the original conditions have been greatly altered through the passing of the centuries. Heavy silt deposits in many places, the disintegration of igneous rocks, and the decay of vegetable matter have all combined to add richness and fertility to these soils.

On the highlands and in the northern section of Eastern Washington, there has always been sufficient rainfall to produce abundant native forage crops, which in the early days of the state's development offered tempting fields to stock men. The opportunities thus presented were early seized and improved to the utmost. In the lower levels and river valleys of Eastern Washington, where the rainfall is insufficient for practical farming purposes, vast stretches of the original volcanic ash presented themselves to the early settlers of the state, an unbroken sagebrush plain. This soil occurs in depths varying from two to three feet to as much as seventy-five feet. In its natural condition it offers a parched and forbidding aspect to the observer, but when the life-giving streams from the mountains are turned upon its barren surface this soil has been found so productive as to be the marvel of all who are familiar with its possibilities.

There are evidences also in many sections of Eastern Washington of vast areas which formerly must have been great inland lakes. The subsiding waters, together with the changing courses of the streams which flow through these districts, leaving their rich silt deposits to

cover the land, have given to the farmers and fruit-growers of the state a legacy of almost incalculable value.

The foregoing treats of the soil conditions of the state only in a general way. Localities will be found both in Eastern and Western Washington where the conditions above described do not apply, but for the purposes of this report, the limitations of which forbid entering greatly into detail, what has been said will probably be sufficient.

CLIMATIC DIFFERENCES AND RELATION OF SAME TO INDUSTRIES.

It has been observed that the Cascade range of mountains divides the state into two sections possessing very different characteristics. Just as we find that the soils of Eastern Washington are different in origin and adaptability from the soils of Western Washington, so we find a marked difference in the climatic conditions of the two regions.

Western Washington.

The characteristic climatic features of Western Washington are its heavy annual rainfall and its equable average temperature, which is influenced to a large extent by reason of close proximity to the warm currents of the Pacific Ocean.

Originally this portion of the state extending from the Canadian border on the north to the mouth of the Columbia River on the south, was one great evergreen forest interrupted only by the various indentations of the ocean which penetrate deeply into the state, and by the numerous streams which flow from the snowclad tops of the mountains to the sea. The gigantic firs and cedars standing in solid array over uncounted miles of territory were the product in large measure of the copious rains which fall in this section during a large portion of the year. The precipitation, however, varies largely in different parts of the western section of the state. The moisture-laden winds from the Pacific Ocean find natural avenues of access to the interior through the mountains and by way of the courses of the various streams. The districts which are directly in line with the course of the prevailing winds naturally receive the greater amount of precipitation. There are a number of isolated sections so located with reference to the mountains and the wind currents that their annual precipitation is only slightly greater than is found in the semi-arid sections of Eastern Washington. In such sections it has been found profitable to construct systems of artificial irrigation to enable the farmers to mature their crops. Other districts not many miles away may have a rainfall annually of from fifty to sixty inches or more.

Some idea of the annual rainfall in different sections of Western Washington may be gained from tables of observations as taken by the agents of the U. S. Weather Bureau. The following figures represent averages of annual precipitation for the counties named covering a period of ten years or more: Grays Harbor County, 88.55 inches; sta-

tion, Aberdeen. King County, 47.81 inches; stations, Seattle, Snoqualmie Falls, and Vashon Island. Kitsap County, 42.47 inches; station, Eagle Harbor. Mason County, 83.41 inches; station, Union City. Pierce County, 58.22 inches; stations, Tacoma and Ashford. Thurston County, 53.86 inches; stations, Grand Mound and Olympia. Whatcom County, 37.47 inches; stations, Bellingham and Blaine.

In general, the climate of Western Washington is mild and equable. Extremes of temperature are rarely experienced. The summers, owing to the refreshing ocean breezes, are delightful and Western Washington with its numerous salt water bays and inlets, its beautiful lakes and mountains within easy access by rail or motor car, is fast achieving national fame as a great summer playground.

As the forests have receded before the attacks of the loggers the lands thus denuded of their timber are rapidly being converted into comfortable farm habitations. The climatic conditions naturally exercise an important influence upon the varieties of crops produced. These will be referred to in detail elsewhere in this report.

Eastern Washington.

Varying conditions of climate are found in Eastern Washington, governed in a large measure by the differing altitudes of the various sections. The outstanding climatic characteristics of the entire region are long, hot summers and moderately cold winters, with an annual rain precipitation varying from almost nothing to a sufficient fall to insure regular annual crops of wheat and other products far above the average, both in quality and quantity. In the higher levels in the north-central and the southeastern portions of the district, farming without irrigation is practiced upon an extensive and ever-increasing scale. In the semi-arid portions of Central Washington, where the annual rainfall amounts only to a very few inches, irrigation is essential to successful farming and the production of crops by this method has been in progress for the last fifty years.

The Cascade Mountain range is the dominating factor in determining the climate of Eastern Washington. These rugged mountains stand as a barrier to the moisture carrying winds from the ocean, seizing their burden and precipitating it upon their own rocky slopes, either in the form of rain or snow. It is in consequence of this condition that so large a portion of Eastern Washington must remain unproductive until it is reclaimed through the construction of artificial systems of irrigation. At times in Eastern Washington extremes of heat and cold are experienced. But the low humidity prevents any disagreeable consequences from the high temperatures experienced in the summer, and the nights, even in the hottest months, almost invariably yield a refreshing coolness. Sufficient snowfall is common during the winter months to make sleighing an enjoyable recreation for periods ranging from two weeks to two months.

The following figures taken from the weather bureau reports indicate the average annual rainfall in the respective counties covering observations through a period of ten years or more: Adams County, 11.90 inches; station, Lind. Asotin County, 16.11 inches; station, Zindel. Chelan County, 14.8 inches; stations, Lakeside and Wenatchee. Spokane County, 18.23 inches; station, Spokane. Walla Walla County, 17.58 inches; station, Walla Walla. Whitman County, 22.20 inches; stations, Colfax, Pullman, Rosalia. Yakima County, 9.35 inches; stations, North Yakima, Sunnyside, Fort Simcoe.

It should be noted that the precipitation of snow is not included in the foregoing statistics.

AGRICULTURE.

Agriculture has been described as the basis of all industry. Certainly in the absence of men to till the soil and force the earth to yield of her bounty, humanity would have but short life upon this earth. As in other newly settled countries, the early comers to the State of Washington sought almost immediately to ascertain the adaptability of the soil and climate in this state to the production of the staple food products necessary to human sustenance. Fortunately for them and for those of us who have come after, their experiments and the experience of succeeding generations in the same line of effort, have proven eminently satisfactory and successful. Speaking in a broad sense, agriculture includes all of the various industries which have their basis in the tillage of the soil. Horticulture, stock growing, poultry raising, bee keeping, etc., are all phases of agriculture. This chapter, however, will be confined to a consideration of the resources and development of this state with reference to grains, grasses, roots, and similar crops, leaving the treatment of these other subjects for further subdivisions of this report.

CEREALS.

Wheat.

The annual production of wheat in the State of Washington ranges from thirty million to forty million bushels. While there are a number of states that surpass our own in total quantity of production, Washington has for years maintained the lead of all the states in the Union for the highest average yield of wheat per year per acre.

Those portions of Eastern Washington which enjoy a rainfall sufficient for the maturing of crops have long been noted for their large yields of this cereal. Lands on the plains of this portion of the state, which in early years were unable to find a purchaser at 50 cents or \$1.00 per acre, quickly took on a twenty-fold value when experimental work had demonstrated their fitness for producing wheat. In the country south of the big bend of the Columbia River a great wheat-growing industry has been in process of development for many years. Likewise, in the rich Palouse and Walla Walla countries wheat growing has been

a source of prosperity to the people almost since the date of the early settlements. It is not uncommon in these latter sections of the state to see the farmers plowing around the knolls and hills which are characteristic of the country, until the very summits are made ready for the reception of their seed.

As has been previously noted, the soil of this region is of volcanic origin. Repeated cropping and cultivation apparently has had small effect upon the producing capacity of this soil. Under the influence of continued plowing and harrowing and moistened by the rains and snows, it becomes more compact and furnishes annually a better seed bed and presents greater resistance to moisture evaporation. Somewhat removed from the lands which are capable of yielding an annual crop are others where the farmers can count upon a fair yield only once in a period of years. The introduction, however, of improved dry farming methods upon these lands is having the effect of converting them from idle sagebrush wastes into productive profit yielding farms.

The wheat grown in the districts thus far referred to is ordinarily of a high milling grade. It finds ready market in the flour mills of Washington and Oregon, and the surplus is annually absorbed through transportation by ocean to the world's great wheat markets.

In recent years wheat production on a considerable scale has been practiced in some of the irrigated sections of the state. Under favorable conditions, yields of wheat on irrigated land exceed sixty bushels to the acre. The wheat thus grown, however, is not usually regarded as best suited for milling purposes, but finds a ready market as feed for stock and poultry. Some soft wheat, utilized for like purposes, is also grown on the flat alluvial lands of the river deltas of Puget Sound. Records of one hundred bushels to the acre of wheat grown in these latter localities are not uncommon.

Wheat growing has proven one of the most staple and profitable of all the industries of Washington. Prices have ranged uniformly high in recent years, and a prosperous and contented population is characteristic of all the important wheat growing sections of the state.

The principal varieties of wheat grown are Bluestem, Club, and Forty Fold.

The leading wheat producing counties of Washington are Whitman, Lincoln, Adams, Walla Walla, Douglas, Yakima, Spokane, Asotin, Columbia, Garfield, Klickitat, Kittitas, and Franklin.

Oats.

This important cereal, while not grown to the extent that wheat is raised, nevertheless, is an important contributor to the sum total of the output of Washington farms. Oats are produced more extensively in Western Washington than in Eastern Washington. A great industry in the production of oats for human food purposes has been developed on the broad alluvial flats near the mouths of the Skagit and other Western Washington streams. The peculiar conditions of soil

and climate in these localities seem to combine to produce all of the essentials for first class milling oats. The consumption of this cereal for the purpose of manufacture into breakfast foods has grown immensely in recent years. The objection that is raised against wheat grown in districts subjected to a heavy rainfall do not apply as related to oats grown under similar conditions. While soft wheat is not best adapted to the production of first class flour, oats that are grown in the humid sections of the state have been found exceptionally well adapted to rolling and for manufacture into various forms of table food. The lands above referred to frequently average one hundred bushels of marketable oats to the acre.

It should not be understood that the growing of oats is disregarded by the progressive farmers of Eastern Washington. The necessity of a plentiful supply of this cereal which still retains the premier position as an ideal ration for horses necessitates the production of oats in Eastern Washington upon a considerable scale. The advantage, also, rests with the farmers in this latter part of the state by reason of the fact that the preparation of the virgin soil for the reception of seed is comparatively an inexpensive process. In Western Washington the item of land clearing is laborious and costly. Logged-off lands must be prepared for crop purposes by the removal of the stumps left by the loggers, either by blasting or through a tedious process of burning them out.

Under the most favorable conditions this is an expensive undertaking. The cost of clearing an acre of land will run from fifty dollars to one hundred dollars, depending upon the size and number of stumps to be removed. It is a matter often of years of continued labor and expensive outlay to place a tract of land in fit condition to produce any kind of crop.

In Eastern Washington an entirely different condition prevails. Where the land originally was covered with a growth of bunch grass, the sod needs only to be deeply turned to convert the field into a receptive seed bed. In those sections where the original vegetation was confined to a growth of sagebrush, the process is a little more laborious and slightly more expensive. The sagebrush must be broken down, dragged into piles and burned, before the plow can be applied. But the total cost of this operation often will not exceed \$2.50 per acre, and a quarter section of land can be cleared and made ready for the plow in a very brief time.

In the districts of Eastern Washington where farming under irrigation is practiced large areas of land which are unsuited to orchard purposes are being utilized for the production of oats. It has likewise been found that large areas of sub-irrigated lands, that is, lands which receive moisture through drainage from lands developed under regular systems of irrigation, will often produce large and profitable crops of oats.

On the irrigated lands where sufficient water supply is readily available, the yield of oats will equal that obtained upon the Western Washington flats. In keeping with other cereals, the price of oats has been maintained at a high level for a number of years and the farmer who comes to harvest time with a good average crop of this cereal is assured a ready market and a profitable price for his products.

Corn.

Until recent years, corn has not been regarded as a profitable crop in this state. The uniformly cool nights which prevail throughout Wastern Washington during the growing season are a bar to successful corn culture on anything approaching the scale maintained in the eastern and central corn belt. Sweet corn, for table use, is grown quite generally by market gardeners in the vicinity of all of the cities of the West Side, and both with respect to quality and acreage yield, it is a satisfactory crop. Field corn for silage purposes is grown to some extent, but generally speaking, the production of corn for commercial purposes is not attempted on any considerable scale in Western Washington.

In the warm irrigated valleys of Eastern Washington, considerable areas are now planted annually to this grain. The nights in these sections are warmer and the long hot days of summer, coupled with the advantage of a plentiful water supply, always under control, surround the grower with conditions that insure a most bountiful yield. The earlier experiments were not altogether satisfactory, even in the highly favored irrigated districts. But it was soon discovered that through proper care in seed selection, and particularly through the development of an acclimated variety, results could be obtained approximating the best yields in Iowa and Illinois.

In the Yakima Valley where corn is grown at present on a considerable scale, 20 tons to the acre when cut for silage, and 60 to 75 bushels to the acre when the grain is allowed to go to harvest are not uncommon. From the above named section, where the most successful results in corn culture have been achieved the practice of devoting a portion of the farm area to corn is rapidly spreading through all of the irrigated districts of Eastern Washington.

Coincident with the production of corn, there has come a great impetus to the dairy and hog-raising industries and throughout the more developed sections of Eastern Washington a modern silo is coming to be regarded as an essential feature of the farm equipment.

For the encouragement of the farmers in devoting more time and attention to the production of this cereal the custom has grown up in the past few years of holding annual corn shows in the fall at numerous localities in the irrigated belt. At these shows the corn growers exhibit the best specimens from their respective fields and compare notes as to the most desirable varieties to plant under the conditions of soil and climate that prevail in their several sections. Three of

such shows were held in the Yakima Valley alone during the season of 1915 and the exhibits offered for public inspection were pronounced by experts to be worthy in every particular of comparison with the products of the most famous corn belts of the middle states.

Barley.

In the extreme southeastern section of the state, more particularly in Garfield, Columbia, and Walla Walla counties, the production of barley in recent years has assumed important proportions. Tests made by the farmers in this section have demonstrated in many cases that barley is a more profitable crop for them than wheat. This grain is equal in value for feeding purposes to corn and is rapidly growing in favor with stock growers, particularly in Eastern Washington where the source of supply is reasonably close at hand. Other sections of Eastern Washington, and to some extent in Western Washington, are likewise capable of producing profitable crops of barley. On the west side some barley is raised, chiefly designed for feeding poultry and hogs.

Prior to the enactment of legislation in this state whereby the manufacture of malt and spirituous liquors were entirely prohibited within its borders, the brewerles consumed a large portion of the barley crop of Eastern Washington. The loss of this market, however, does not appear to have made any substantial difference in the area of land devoted to barley production, as there appears to be a demand for all the barley that our farmers produce.

Peas.

Conditions in Western Washington in the valleys and lower foothills are admirably adapted to the production of peas. Eastern seed men long ago discovered that a superior quality of peas is grown in this section of Washington, and several of the large seed firms are finding their source of supply for peas in this state.

Experiments have been made on the irrigated lands of Eastern Washington in growing peas adapted for canning purposes. Such experiments, where proper care has been given the crops, have invariably proven successful. Where the sowings are made early in the spring two full crops on irrigated land are easily obtainable. Reports made to large eastern canneries which have furnished seed for experimental purposes, have led them to an investigation of the possibilities of establishing large pea canning factories in Central Washington.

Grasses.

The lands, both of Western and Eastern Washington, have been found well adapted to the growth of a wide variety of grasses suitable for forage and hay purposes. Western Washington is well entitled to be called "evergreen," not only on account of its boundless forests of fir, cedar, and spruce, but likewise for the abundant growth of

grass crops which rapidly cover the logged-off lands when the timber men have completed their labors. Wild grasses flourish in this section equally with clover, bluegrass, and timothy, all of which are grown on a considerable scale. Weather conditions in Western Washington are more or less uncertain during the harvest season, and for that reason the major portion of the grass crops are consumed as pasture. The adaptability of the district to the production of these crops has greatly stimulated the dairy industry in Western Washington. Thousands of fine dairy cattle find their chief sustenance on the cut-over lands of the western portion of the state, which furnish bounteous pastures for a large portion of the year. This industry has grown to such proportions that the dairymen are not only able to supply the demands for fresh milk and cream for the cities of Seattle. Tacoma. Everett. Bellingham, and other large centers of population, but a sufficient surplus is produced to supply the demands of a multitude of creameries and of several large milk condensing plants.

The chief source of supply of the state for cured hay is found in the Kittitas and Yakima valleys of Eastern Washington. The first named section has long been famous for its splendid dairy herds and for the products of its creameries. This district annually produces a heavy tonnage of timothy, alfalfa, and mixed hay, the surplus product finding a ready market in the cities of Western Washington.

Farther down the Yakima Valley, notably in the lower portion of Yakima County, will be found vast fields devoted to the production of alfalfa. Three cuttings of this valuable forage crop are made annually with yields running from four to six tons per acre. In the more favored sections the fields are pastured after the third cutting, thus giving the owners an added source of revenue. On the Yakima Indian Reservation, where a large portion of the alfalfa crop of Yakima County is grown, thousands of heads of cattle are wintered annually, their principal ration consisting of alfalfa hay. That portion of the crop which is not sold to feeders or consumed upon the farms of the growers, finds a ready market among the dairymen of Western Washington who find it necessary to supplement their pasturage with liberal supplies of alfalfa. The prevailing price for alfalfa hay, baled and on the cars at point of shipment, ranges at about ten dollars per ton. First class timothy hay baled and on the cars averages the grower from fifteen to seventeen dollars per ton. The prices above given apply during years when normal conditions of supply and demand prevail. For 1915-16, an unusual situation has presented itself. European war and the general tendency toward higher price levels of all farm products, have been factors in stimulating bidding for the Washington hay crop and the growers have enjoyed better returns than for several previous seasons.

Alfalfa is also a favorite cover crop with the fruit growers of practically all of the orchard districts of eastern Washington, and from this latter source a considerable annual tonnage is harvested.

In most cases alfalfa thus grown is utilized on the premises of the producer.

HORTICULTURE.

Horticulture is one of the several rapidly developing industries of Washington which have their origin in the tillage of the soil. The production and marketing of fruit upon a commercial scale has been carried on, comparatively speaking, for only a brief number of years. It is true that fruit has been grown in this state since the days of the earliest settlements and it is not a matter of difficulty to find in Washington small apple and cherry orchards considerably older than the state itself.

The entrance of the state into the field of commercial fruit production, however, may roughly be said to date from the time when irrigation began to be practiced upon a considerable scale. It is not to be assumed from this that all of the fruit produced in Washington is grown upon irrigated land. Both of the great divisions of the state commonly spoken of as Eastern and Western Washington, the boundary line between which is formed by the Cascade range of mountains, have been found adapted to fruit growing. In Eastern Washington the great bulk of the fruit lands are under irrigation. In Western Washington a different condition prevails. The lands in this latter section devoted to fruit are located for the most part in the fertile river valleys and on the islands of Puget Sound.

A distinction to be noted at this point is the difference in character of the fruit produced in the two grand divisions of the state. Generally speaking the fruit districts of Eastern Washington are given over largely to the production of orchard fruits, such as apples, pears, peaches, apricots, etc. Grapes are also successfully grown upon a considerable scale in this part of the state. Western Washington, while it boasts the production of excellent tree fruits, has been found a more profitable field for the development of large acreages of berries. The most important of these crops are red raspberries, strawberries, loganberries, and blackberries. On some of the bog lands of the southern part of Western Washington cranberries are grown and are rapidly developing into an exceptionally profitable crop.

Scope of Industry.

Fruit production fluctuates perhaps in a greater degree than other crops which engage the attention of the tillers of the soil. Washington, in common with other fruit-growing commonwealths, has its years of maximum fruit crops and likewise has its years when adverse weather conditions, late frosts, and other disadvantages which are the common lot of the fruit growers tend materially to cut down the yield.

The industry, however, at the present time is so firmly established and the fruit districts are so widely distributed throughout the state that even in what are known as bad years an enormous tonnage of both orchard and small fruits is annually contributed by this state to help supply the constant and never satisfied demand for fruit.

Probably it would be safe to say that Washington is producing and marketing fifteen thousand car loads of fruit annually, having a value between ten and twelve million dollars. From the fruitgrower's standpoint an "off year" does not necessarily mean an unprofitable year, A small crop ordinarily brings to the grower a higher price for his product than he realizes when his trees carry a maximum load of fruit. His expenses in such years for crates, picking, packing and for the care of his orchard are materially reduced. Generally speaking, however, the Washington fruitgrower who has been fortunate enough to locate his orchard on proved fruit land need not worry concerning his crop.

Advantages Enjoyed.

The fruit grower who has been fortunate in the selection of his location and in successfully bringing his orchard to the bearing stage enjoys certain marked advantages which are not common to other branches of farming. Horticulture is a highly specialized industry. It depends not so much upon the area of land under cultivation as it does upon the intelligence, skill and foresight which the orchardist applies to his business. The orchard districts of this state are made up in large measure of five, ten, and twenty acre tracts. The fruit-grower has his permanent home on his land. He has neighbors close at hand, has the benefit of excellent public schools, church facilities, rural mail delivery, telephone, and in many cases his home is lighted by electricity. His land has a higher valuation for taxation purposes than ordinary farm land and for that reason he usually enjoys the advantages of highly improved roadways and other public conveniences.

The highly developed fruit sections of the state almost invariably have easy access to flourishing trading centers. Small towns are scattered throughout the various fruit belts and a two or three mile drive usually brings the fruit-grower to the door of the merchant who supplies him with the commodities required for his orchard and home.

His routine of life is much the same as that which applies in any small American community. He knows nothing of the disagreeable isolation which was the lot of the farmers of bygone generations. He meets with his fellows at the school house or in community buildings where ideas and experiences are interchanged and where public questions are freely and profitably discussed. He is on terms of close acquaintance with the residents of the nearby towns and has access to the social advantages which are an essential feature of our American life.

It must not be thought, however, that the fruit-grower's pathway is one that is entirely strewn with roses. A considerable initial capital is required to warrant him a reasonable prospect of success in his undertaking. He must exercise the greatest of care and prudence in the selection of a location. If he undertakes the development of a

new orchard he must anticipate a series of from five to seven years before he can expect his venture to show a profit. He must be alert at all times in fighting the pests which wage incessant warfare upon his trees, and he is confronted at all times with the serious problem of finding a steady and profitable outlet for his products. The solution of this latter problem is being sought through various agencies. Fruitgrowers associations and unions have been formed in practically all of the fruit growing sections. State and government experts have been enlisted in an endeavor to effect an economical and profitable distribution of the fruit crop throughout the large consuming centers of the country. Through the operation of these various forces, great progress has been made in disposing of the surplus products of the orchards of Washington. It must be realized, however, that fruit of any kind is a perishable product. In particular with reference to pears, peaches, berries and others of the softer fruits a market must be found for them at the time when they are best suited to meet the consumer's These natural and unavoidable conditions surround the fruit industry with a greater or less degree of uncertainty. But on the other hand when conditions are favorable the same situation works largely to the advantage of the man who has prime fruit for sale.

The ideal condition for the fruit grower is found in cases where an area of land equal to or greater than that given over to the orchard is utilized for purposes of general farming. A pasture lot, a few acres in alfalfa, some corn, and a garden constitute an insurance policy against fruit failure or low prices which every experienced orchardist fully realizes and appreciates. Fruit growing is like any other industry. When the eggs are all in one basket the possibility of disaster must be accepted.

Fruit Districts of the State.

The principal fruit producing sections of Eastern Washington are the Yakima Vallay, the Wenatchee Valley, the districts surrounding Lake Chelan, the Methow Valley, the Okanogan Valley, the country surrounding and north of the city of Spokane, and certain portions of the extreme southeastern section of the state. In practically all of these districts the fruit lands are under irrigation. Along the Columbia River and other streams comparatively small areas have been found where excellent fruit is produced without the application of artificial irrigation. In Western Washington a large and growing berry industry has been developed in the Puyallup and Snohomish valleys and upon Vashon Island and others of the islands of Puget Sound. In Clarke County, located in the extreme southwestern section of the state, prune orchards have been developed upon a considerable scale and have been found an exceptionally profitable crop.

The above districts are mentioned particularly as representative locations where fruit growing is practiced upon a commercial basis. There is no county in the state which does not produce some fruit

and the home orchard is an accepted feature of rural life in practically all sections of Washington.

Fruit Districts of Eastern Washington.

The most highly developed fruit sections of Eastern Washington are located in the valleys of the several streams which find their origin in the snow capped peaks of the Cascade Mountains. These streams fed from the eternal snows which cover the mountain tops, supply the fertile lands of the river valleys with the moisture requisite to compel them to yield of the fertility with which they have been charged during the passing centuries.

The work of reclamation has not been confined entirely to the lands immediately adjacent to the streams. In many cases it has been found that the higher levels are better adapted to fruit growing than the low lands. Such areas are more likely to be immune from late frosts and usually are advantageously situated with reference to air drainage, which is a vital factor in successful fruit production. To water these higher lands it has been found necessary in some cases to install vast storage works in the headwaters of the streams. These reservoirs afford an unfailing supply of moisture under absolute control and available throughout the irrigation season to supplement the normal flow of the streams. It is by no means an uncommon sight in the river valleys of Eastern Washington to see the irrigation flumes clinging to the cliffs high above the river level carrying their precious burden of moisture to supply the favored fruit lands along the benches which lie high above and extend for miles back from the rivers.

The Yakima Vailey.

The Yakima Valley produces by far the heaviest annual tonnage of any of the fruit growing districts of Washington. This valley embraces three large and important counties, namely, Kittitas, Yakima and Benton. The Yakima Valley is known as the original home of irrigation in the state of Washington. In the earliest day of territorial settlement farming by irrigation was practiced along the banks of the Yakima River and its tributaries. Small diversions of water were made by the farmers who tested and proved in that manner the marvelous capacity of the valley soil for banner crop production. Later on when more settlers arrived in the valley, communities joined hands in the construction of more ambitious irrigation canals. At a still later period large corporations entered the field, secured rights to water from the streams and began what may be termed the era of the construction of permanent irrigation projects. Finally the federal government under the broad powers conferred by the reclamation act. entered the valley with a view to the reclamation of all its vast irrigable area.

The government projects either under actual course of construction or already approved within the confines of the Yakima Valley contemplate the reclamation of more than four hundred thousand acres of land. As a preliminary to the commencement of government work in the valley it was necessary to adjudicate all the then existing rights to water from the Yakima River and its tributaries. It was found upon investigation that the claims of private individuals and companies to water in the valley far exceeded in the aggregate the total minimum flow of the Yakima River. Before proceeding with any construction work the government undertook and successfully carried out a plan of allotting the waters of the river among the various claimants. When the various apportionments had been satisfactorily agreed upon, the Reclamation Service took over on behalf of the government what is known as the Sunnyside Project. project located in Yakima and Benton counties embraces close to one hundred thousand acres of first class agricultural land, most of which is now receiving water and is under cultivation. Four other projects are included in the government undertaking in the Yakima Valley, as follows: Kittitas Project in Kittitas County, area seventy thousand Tieton Project in Yakima County, area thirty-five thousand Wapato Project and extensions located in Yakima County, area one hundred and fifty thousand acres. Benton Project located in Benton and Yakima counties, area one hundred and eighty thousand acres. In addition to the foregoing, plans are also under development which will reclaim a large area of land located on the higher levels not at present reached by any of the existing irrigation systems.

Storage Works.

As already indicated, the government officials found upon the entry of the Reclamation Service into the Yakima Valley that the normal flow of the river had previously been appropriated. To meet the requirements of the vast projects above outlined, it was found necessary to undertake the construction of immense storage plants in the mountains to provide a supply of water available during the period of low water flow, which begins about the first of July. The plans for storage as outlined by the Reclamation Service, include the construction of impounding dams at Lake Kachess, Lake Keechelus, Bumping Lake, Lake Cle Elum, and McAllister Meadows, located at the headwaters of the Yakima River and of its larger tributaries. Several of these projects are now well along toward completion and the available water supply is well in advance of the actual development of the land. The Sunnyside and Tieton projects are now practically completed. The Wapato project, located on the Yakima Indian Reservation comprising with extensions a total of one hundred and fifty thousand acres of land, has already been partly reclaimed under a temporary system of ditches constructed by the United States Indian Service. Under these canals there are now farmed approximately sixty thousand acres of land. The permanent distributing system which ultimately will embrace the area already under ditch, as also the remaining ninety thousand acres not yet reclaimed, was authorized at the last session of Congress. The initial appropriation for the work became available on the first of July of the present year, 1916, and is being expended in the construction of a diversion dam and in further extensions of the existing system.

Private companies organized prior to the commencement of government operations in the valley are still operating on an extensive scale, and the lands under these canals are heavy contributors to the annual output of Yakima Valley crops.

Products of the Yakima-Valley.

While as has already been noted, the Yakima Valley is the heaviest contributor of any one district to the horticultural products of the state, fruit growing is by no means an exclusive occupation of the residents of the valley. The district may better be described as a diversified farming country. Alfalfa, clover and timothy hay are raised on a large scale. Grains of all kinds are produced on the irrigated and sub-irrigated lands, while cantaloupes, water melons, hops, onions, potatoes, truck garden vegetables, etc., are standard crops. An excellent idea of the purposes for which the lands of the Yakima Valley are adapted will be found from the following government reports of the last crop season for the Sunnyside and Wapato Projects:

Wapato Project. IRRIGATED AREAS

IMMIGATIO AMBAS.	Acres
A14-14- (-13)	
Alfalfa (old)	20,549.00
Alfalfa (new, cut this year for first time)	743.50
Alfalfa (new, with grain)	4,650.75
Bearing orchard (clean cult.)	1,083.50
Bearing orchard (in alfalfa)	1,279.00
Bearing orchard (in grain)	151.00
Bearing orchard (other crops)	140.00
Young orchard (clean cult.)	380.00
Young orchard (in aifalfa)	109.00
Young orchard (in grain)	178.00
Young orchard (other crops)	182.50
Clover	1.471.00
Pasture	1.691.50
	1,056.00
	3,864.50
Oats	1,428.50
Corn	1,961.85
Timothy	1,290.00
Rye	50.00
Cantaloupes and watermelons	1,162.75
Hops	80.00
Onions	142.00
Truck	768.00
Potatoes	2,321.25
Nursery	220.00
Miscellaneous	1.204.15
	1,207.10
Total irrigated	48,157.75

SUB-IRRIGATED AREAS.	
	Acres
Alfalfa (old)	725.00
Alfalfa (new, cut this year for first time)	6.00
Alfalfa (new. with grain)	86.00
Bearing orchard (clean cult.)	5.00
Bearing orchard (in alfalfa)	33.00
Bearing orchard (in grain)	
Dearing Orchard (in grain)	26.00
Bearing orchard (other crops)	37.00
Young orchard (clean cultivated)	23.50
Young orchard (in grain)	10.00
Young orchard (other crops)	5.50
Clover	15.00
Pasture	791.50
Barley	114.00
Wheat	937.00
Water	
Oats	177.50
Timothy	13.00
Truck	17.00
Potatoes	10.00
Miscellaneous	7.00
Total sub-irrigated	3,039.00

SUNNYSIDE PROJECT.

Department of the interior, united states reclamation beryluff. Water user or project—varima-sunniside. Tear of 1995.

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				YIELDS	9 2			VALUES	
OROP	Area	Unit of	1-4-1		Per Acre				_
	Acres	X Meld	1.001.	Average	Max.	Kfb.	of Yield	Total	Per Acre
Irrigated for production of this crop—	26.042	ton	104, 168	4.0	7.5	1.0	8.0	\$067.512	8
Apples	. 26±	pomod	19,289,000	2,250.0	80,000.0	860.0	8	99, 66	4.25
Chorar and have	22 85	busbel	200	9 C	3.4	20.0	8.9	20,4	1.8 1.8 1.8
Cora	8,166	bushel	780,900	8	126.0	22.0	8	98,940	88.00
Oorn fodder	1,082	ton	11,852	11.0	9. 9.	0.0	8.8	88, 211, 211,	8.8
Garden	\$ 3	Bere	28.0				8.00	18. 18. 18. 18. 18. 18. 18. 18. 18. 18.	38
Hay, except above	8	to no	2,517	8.0	0.7	9.0	9.6	22	8.73
Hops	_	ponod	408,000	2,400.0	8,200.0	1,200.0	Π.	1,880	8.78
Oats		bospel	12,420	8	100.0	80.0	3.	6,389	87.00
Pasture		acre	3,826				8	8 8	8.8
Peaches		ponnd	6,286,880	5,900.0	60,000	0.08	.0125	77,848	8
Denna	1,8	podio	000,400,8	200		35	958	127,000	118.07
Potatose	98	Pound	000,628	27.0		200	3.4	80% COS	2 S
Wheat	1.396	pospor	81,900	8	9	10.0	8	28,710	8 8
Less duplicated areas	3,875								
Total cropped	64,919	Tota	Total and average					\$2,750,826	\$50.08
Other purposes— Toung ordered				AREAS			Acres	No. Farms	Per Oent of Project
Irrigated without crop Town and building sites Less duplicated areas	8,284 8,891 8,872	Total ir Total ir	Total irrigable area farms reported Total irrigated area farms reported	arms repo	rted		88,840 708,800	2, 2, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	62.11
Total other purposes	11,688		Under water right applications	tracts	Tons			1,65	24 to 12 to
Grand total irrigated	709'99		Total cropped area farms reported	ed area fa	rms repo	rted	54,919	2,568	49.66
	١.								

Fruit Lands.

Fruit growing on a constantly increasing scale is practiced in all three of the counties of the Yakima Valley. In the vicinity of the city of Ellensburg in Kittitas County and even closer to the foothills of the mountains the orchard industry has for years been a permanent and substantial contributor to the prosperity of the people of that district.

In Yakima County where are located extensive areas of approved fruit lands, the industry has assumed tremendous proportions. Radiating in several directions from the city of North Yakima are a number of fertile valleys, all of which are heavy contributors to the county's annual output of fruit. In the lower sections of the county the lands of the Sunnyside Canal, as will be noted from the foregoing statistics, are in large measure devoted to orchard purposes. On the Yakima Indian Reservation a considerable acreage is likewise devoted to fruit, although on a less scale proportionately than is found elsewhere in the county. Benton County also has a large acreage in orchard with numerous plantings made in recent years soon to come into bearing. In the Kennewick district, where the Yakima River joins with the Columbia, conditions have been found extremely well adapted to the development of the strawberry industry. The Kennewick berries come on to the market several weeks in advance of the Puget Sound crop and invariably bring the growers an attractive price for their product.

Evidence of the permanent character of the orchard industry in the Yakima Valley is found in the preparations which the railroad companies have made to handle the annual orchard output. Branch lines extend into the fruitgrowing districts with loading stations located at intervals of two and three miles, as best suits the convenience of the growers. Immense ice storage plants with a capacity of thousands of tons have been constructed at several points in the valley for icing the refrigerator cars which carry the soft fruit products of the valley to distant markets.

For the purpose of lending stability to market conditions, several large cold storage plants have been constructed in the valley and are an important factor in preventing violent price fluctuations during the harvest season.

The Wenatchee Valley.

The Wenatchee Valley, the second most important fruit producing district of Washington, is located in Chelan County. Like the Yakima Valley, its lands are of volcanic origin and are watered by streams which find their sources on the eastern slopes of the Cascade Mountain Range. The Wenatchee Valley has long been famous for the high grade character of its fruit, which is well known and appreciated in the markets of all the large eastern cities as well as in many foreign countries.

The valley is traversed by the Great Northern Railway for its entire length, and its eastern boundary is formed by the Columbia River which furnishes additional and important transportation facilities.

This valley is essentially a district of small farm and orchard holdings. Journeying from west to east, the traveler scarcely emerges from the foothills of the mountains when his vision is confronted by a panorama of orchards and garden fields, which continuously unfold before him for the entire remaining length of the valley.

Well improved roads have been constructed throughout the district, not only affording the land owners quick and comfortable access to the various trading centers, but likewise providing for the tourist a most enjoyable and attractive scenic trip.

The individual land holdings in this valley are uniformly small, particularly as applied to the fruit industry. The growers have found it profitable to devote their effort to the intensive improvement of five, ten, and twenty acre tracts. As a consequence the valley is thickly populated and the inhabitants enjoy all of the conveniences and comforts which the modern conception of rural life affords.

Prior to the development of the fruit industry in this section small diversions of water were made from the Wenatchee River, which is the principal stream of the valley. In this manner the farmers made a beginning in the production of alfalfa and other farm crops and paved the way for the later development which has followed. Small orchards were planted by many of the settlers and when these had developed to a producing stage the adaptability of the district to fruit growing upon a commercial scale became well established. Since that period fruit growing has developed upon an extensive scale, all under privately owned systems of irrigation. At the present time nearly all of the available irrigable land from the town of Leavenworth, well up in the mountains, to the splendid little city of Wenatchee, located near the junction of the Wenatchee and Columbia rivers, has been brought under ditch and is now in cultivation.

In addition to the famous red apples, other fruits such as peaches, pears, apricots, cherries and plums have been found profitable and are produced on an extensive scale.

Special Advantages.

Numerous special advantages accrue to the settler in this well favored section. Transportation to markets both east and west is right at hand. The climate is mild and equable and extremes either of heat or cold are of rare occurrence. The mountains are close at hand with numerous streams providing excellent fishing and camping sites, thus affording quick relief from the high temperatures of the mid-summer days.

The Entlat Valley.

The Entiat River is second in importance of the streams of Chelan County. It likewise rises in the Cascade Mountains some distance north of the Wenatchee River and finds its way to the Columbia, following a course somewhat parallel to the former. Irrigation is practiced along the banks of this stream and for a distance of fifteen miles above its confluence with the Columbia will be found a section of well-developed orchards and farm homes. Peaches are grown on a considerable scale near the Columbia River, and farther up the valley the finest grades of winter apples are standard crops.

This valley is considerably narrower than the Wenatchee Valley, but its lands, soil, climate and other features are generally similar in character.

Lake Chelan.

Although until recent years remote from transportation facilities, the lands adjoining this beautiful lake have for years produced considerable crops of apples and other fruits. In the earlier days the growers attained more or less success in apple production without resorting to artificial irrigation. It was found, however, that when the trees reached maturity they demanded a greater supply of moisture than the soil afforded and in recent years the better lands have been brought under well constructed systems of irrigation. Fruit growing is now practiced upon a commercial scale in this section with every prospect that it will continue to grow in extent and importance in coming years.

The Lake Chelan country is one of the most beautiful of Washington's many scenic assets. The lake itself is located in the heart of the mountains, surrounded by towering peaks, and attracts each summer a continually increasing number of tourists and campers. The recent completion of an extension of the Great Northern system from Wenatchee to Oroville has brought the district within reasonable reach of needed transportation facilities.

OTHER ORCHARD DISTRICTS OF EASTERN WASHINGTON. The Methow Valley.

Still farther north of the Wenatchee Valley the Methow River, a turbulent mountain stream, rushes down from the Cascade summits to a point of junction with the Columbia at a distance of about sixty miles north of the city of Wenatchee. Fully fifty miles of the lower portion of this valley is well adapted to a wide variety of agricultural and horticultural purposes. In many places the valley is several miles in width, the lands gently sloping on either side of the river back to the foothills and presenting conditions of soil, drainage, etc., which have made the valley attractive to the fruit grower as well as to the general farmer. The irrigated lands in this district have been developed under private systems of irrigation. A plan has been worked

out whereby orchard lands have been brought into bearing by the irrigation companies for the owners and through this means and through the efforts of individual orchardists a large acreage chiefly devoted to the production of winter apples is now contributing to the annual fruit crop of Washington.

The Okanogan District.

The Okanogan District is a country of important but as yet largely undeveloped resources. It is characterized by high mountains, extensive rolling hill lands and fertile river valleys. The principal development from a horticultural standpoint has been along the last mentioned.

Some orchard development has taken place in what is known as the Brewster Flat country, a district comprising about fifteen thousand acres of bunch-grass land located near the confluence of the Columbia and Okanogan rivers.

The Okanogan Project.

Some miles to the north and bordering along the west bank of the Okanogan River is located what is known as the Okanogan irrigation project. This project, comprising somewhat more than ten thousand acres of land, has the distinction of being the first irrigation enterprise to be undertaken and brought to completion by the United States Reclamation Service within the confines of the State of Washington. The lands extend up and down the Okanogan River a distance of about ten miles. Originally they were covered with a heavy growth of bunch-grass and were a favored grazing section for herds of cattle and horses which roamed at will over their broad areas in the early days when the stockmen knew no restrictions of fence lines or government reservations. At the present time these lands are the center of a growing fruit industry devoted chiefly to the production of Winesap, Jonathan, Spitzenberg, Rome Beauty and Newtown Pippin varieties of apples.

Other smaller orchard districts occur along the Okanogan Valley, and at Oroville, located close to the Canadian border, an important irrigation project has been completed within the past year. The lands of this project have been thoroughly tested and found well adapted to the production of superior orchard fruits. With the completion of a permanent system of water supply this particular district has before it a period of certain development.

Northeastern Washington.

Stevens and Pend Oreille counties, located in the extreme northeastern section of the state, while as yet they are not heavy shippers of fruit, still present possibilities of importance to anyone surveying the state from a horticultural standpoint. In the valleys of these counties irrigation is practiced upon a small scale and particularly in Stevens County a considerable orchard acreage has already been developed. In the Kettle Falls section a considerable acreage of land has been under irrigation for some years and is largely devoted to fruit. Along the Columbia River open stretches of land have been occupied and planted to orchard with results that have proven eminently satisfactory. In addition to the orchards actually yielding, there is a large acreage which will come into bearing in the next few years.

Spokane County.

Spokane County is the third largest county in the state with respect to the number of fruit trees in bearing and is equally important with respect to the area of young orchard that will begin producing within the next five years. The orchard districts for the most part are located in the valley of the Spokane River, extending in a generally eastward direction from the city of Spokane to the Idaho boundary. To the north of Spokane is a large area of cut-over pine lands that have been cleared and planted to orchard. Fruit grown in Spokane County is of superior quality and the orchards by reason of close proximity to several transcontinental railways and the markets offered by the city of Spokane, occupy an unusually favorable position. Among the principal fruit districts of this county may be mentioned Opportunity, the Vera project, the Spokane Valley Land & Water Company's project, and the Arcadia Lands.

The Big Bend District.

In the counties of Douglas, Grant and Lincoln, occupying what is commonly known as the Big Bend country, will be found numerous small areas that have been successfully developed for orchard purposes. These lands generally lie along the banks of the Columbia, in some of the watered coulees or on the rolling prairies where pumping plants have been installed to supply the necessary irrigation. The output of fruit from these counties for commercial purposes has been very small although each of them has considerable plantings which will shortly come into bearing.

Southeastern Washington.

In the southeastern portion of the state a group of counties comprising Whitman, Walla Walla, Garfield, Columbia and Asotin, are all substantial contributors to the total output of Washington fruit. Walla Walla county, the heaviest producer of orchard products of this group of counties, has a considerable irrigated area in orchard. The Blalock orchard tracts are located in close proximity to the city of Walla Walla. The water for these lands is largely supplied from deep artesian wells.

In the western section of the county is located the Burbank project, which is watered from the Snake River. Southwest of Walla Walla

are the Gardena tracts where the growing of Winesap apples has been established upon a considerable scale.

In the Clarkston district of Asotin County a large irrigation project has been developed and a considerable acreage has been planted to winter apples. Cherries, peaches, and grapes are likewise staple products of this locality. In the Cloverland section, located on a plateau two thousand five hundred feet above sea level, will be found another prosperous orchard district where cherries, plums, prunes, pears and apples are successfully grown.

Other Lands.

In this brief survey of Eastern Washington from a fruit-growing standpoint it has been impossible to describe or even mention all of the districts where fruit production has assumed commercial proportions. There are numerous other smaller sections in addition to those already mentioned where all of the standard fruits of the temperate zone are successfully grown.

FRUIT GROWING IN WESTERN WASHINGTON.

Fruit growing is one of the lesser industries of Western Washington. This vast region embracing the territory lying between the Pacific Ocean and the summits of the Cascade range of mountains is still covered in large measure by virgin growth of evergreen timber. Lumbering and its subsidiary industries, together with an ever-growing volume of commerce, both foreign and domestic, furnish the chief occupations of the people. With these are to be coupled a great fishing industry which employs thousands of men and is a substantial contributor to the prosperity of this section of the state.

As has already been suggested, however, there are considerable areas of agricultural land in the river valleys of Western Washington and on the uplands adjacent to Puget Sound, which having once been cleared of their timber growth have provided an inviting field for the tiller of the soil. The counties of Western Washington do not figure prominently in the fruit shipping statistics of the state when compared with such highly developed orchard districts as Yakima and Chelan counties. The cool, moist climate is not conducive to imparting the high color to the apples which is the characteristic feature of the same fruit produced in the orchards of Eastern Washington. However, it has been found by practical tests that apples of very satisfactory size and flavor can be produced in many favored localities of Western Washington, and a large tonnage of this fruit is annually produced, finding consumption for the most part in the local markets.

Cherries, plums, prunes and small fruits yield abundantly in practically all sections of the western part of the state and in Clarke County, in the southwestern section, prune production has been an important industry for many years.

In Pierce County the thriving towns of Puyallup and Sumner are the distributing points for an important berry industry. The valley lands surrounding these communities have been found particularly well adapted to the production of red raspberries and other small fruits. The berries come to the marketing stage firm and plump and suited for shipment to distant eastern markets. The growers in these communities are united in an organization which directs the distribution of their crop. Carload shipments of berries go out daily during the shipping season to the large eastern markets where they find ready sale at profitable prices. That part of the crop which is not suitable for distant shipments is utilized in a large cannery which also handles other fruits, including importations from the orchards of Eastern Washington.

Snohomish County is another section where small fruits are grown upon a commercial scale. Raspberries, blackberries and loganberries are extensively produced in this section, and the county is also widely recognized in Western Washington for the superior quality of its orchard fruits.

Vashon and Maury, two large islands of Puget Sound, are the centers of an important strawberry industry. The soil and climatic conditions on these islands have been found particularly well adapted to this fruit and a large area of logged-off lands is devoted to this industry. Vashon Island alone annually markets nearly \$40,000.00 worth of strawberries which helps supply the markets of the large commercial and industrial centers of Western Washington. Strawberries are also grown upon an increasing scale on the lower levels east of Seattle and bordering upon the shores of Lake Washington.

In Skamania County will be found another section in which strawberry growing has developed to large proportions and there is also in this county much land that is particularly well suited for general orchard purposes. Skamania County fruit is recognized as the equal of any produced in the Northwest.

In general, the conditions described in the foregoing will be found applicable to the remaining portions of Western Washington. In some counties the area of land available is comparatively small, owing to the fact that the original timber growth still awaits the coming of the lumber jacks.

A phase of the fruit growing industry of Western Washington more important by reason of its latent possibilities than on account of its development thus far, is the cranberry industry. In Pacific County around Willapa Bay is a district of three thousand to four thousand acres of low marshy lands which are today producing and marketing an exceptionally superior quality of cranberries. The products of these marshes sell in competition with the best cranberries of the East and the industry is one that is certain to attain important proportions in the future.

CONCLUSION.

What has been presented in the foregoing has been intended merely to give the reader some general insight into the scope and magnitude of the fruit industry of this state. Obviously, within the limits of these pages it is impossible to offer detailed facts and figures with reference to each fruit growing locality, but a sufficient showing probably has been made to afford reasonable proof of the contention that the fruit growing industry has already attained important proportions in Washington. The acreage that has been planted in orchard and which is not now in bearing is vastly larger than the area now in production. It is quite safe to assert that within the next five years the output of Washington fruit will be double or possibly treble the present production. A final word may be spoken with reference to the varieties of the different orchard fruits utilized for commercial purposes. The leading varieties of the different fruits may be enumerated as follows:

Apples—Winesap, Jonathan, Rome Beauty, Spitzenberg, Newtown Pippin, White Winter Pearmain, Yellow Transparent, Arkansas Black, Delicious, Winter Banana.

Pears-Bartlett, Anjou, Winter Nelis, Comice.

Peaches-Elberta, Crawfords, Carmen, Slappy.

Cherries—Bing, Royal Ann, Lambert, Black Republican, Early Richmond.

DAIRYING.

Scarcely more than ten years ago importations of butter from Oregon, California and the eastern states into the State of Washington were estimated in terms of millions of pounds annually. For the year 1905 the cities of Seattle, Tacoma, and Spokane brought in from the sources above mentioned more than five million pounds of butter. In that period of the state's history it was not uncommon for large dealers to advertise a trainload of Iowa butter. At the present time the dairymen of this state are capable not only of supplying the home demand, but are likewise reaching out for outside trade. This does not mean that no butter produced outside of Washington finds a market in the state. Considerable quantities are still imported and will continue to be. But nevertheless it is well established that Washington is capable at the present time of furnishing its people with everything they require in the line of dairy products.

When it is considered that the population of the state has increased by fully fifty per cent during the past ten years it will at once be apparent that some tremendous forces have been at work in connection with the development of the dairy industry. The three principal factors which have entered into and influenced the remarkable change which has been accomplished in so short a period may be enumerated as follows: (1) The soils of the state which have been found wonderfully well adapted to pasture purposes, and to the production of maximum yields of forage crops. (2) Climatic conditions

which lend themselves in every respect to successful dairying. (3) The extraordinary growth of the commercial and industrial centers of the state which have supplied a market ready and alert to absorb the continually increasing output of Washington dairy farms.

Dairying is no longer a haphazard industry. It is a highly organized business of its own and when conducted upon scientific principles and under the favorable conditions which are presented in this state offers a field of industry uniformly satisfactory and profitable.

Both the state and federal governments have interested themselves in furthering the interests of Washington dairymen. An unceasing campaign of education has been in progress for years, having for its purpose the building up of improved dairy herds. Practically every dairyman in the state has access to the experience and instruction of government and state experts. Constant demonstrations of improved dairving methods are carried on in every section where dairy farming is followed and to these must be added the important influence of state and county fairs, stock judging contests, and dairy cattle shows which are annual occurrences throughout the state. Another influence of prime importance in building up and improving the dairy herds of Washington is the system of inspection constantly in operation under state and municipal auspices. The dairyman who escapes the influence of these various agencies for the betterment of his calling must reside in some altogether isolated location or else be extremely indifferent to his own interests.

Principal Districts.

It is difficult to point out any particular sections of the state which are best adapted to this industry. King County, according to returns of the county assessors, has the largest number of dairy cows of any county in the state. But this is due primarily to the fact that King County contains within its borders more than twenty-five per cent of the total population of Washington. Many other districts enjoy advantages equal to those possessed by King County in connection with this industry, although these advantages are not the same in all localities. Western Washington as a whole has often been described as a natural dairy country. In this favored section except for a brief period in midsummer the pastures are green throughout the year. An intricate network of rivers and small streams, whose cooling waters trace their sources to the glaciers and snow-capped peaks of the mountains, furnish an invaluable auxiliary to successful dairying. crops suited to form a large part of the dairy cow's ration are produced in great abundance and ready markets are almost invariably available to absorb the products of the dairy farms.

In the warm irrigated valleys of Eastern Washington advantages of equal importance, though of a different character, are discovered. In this section immense crops of alfalfa and other grasses are produced and to these, recent years have added a large and constantly

increasing acreage of corn. This latter crop is often cut green for silage purposes or it may be allowed to mature and be harvested for winter feed. A heavy tonnage of surplus alfalfa annually finds its way from Eastern Washington to the dairying centers of the coast to help carry through the winter the dairy cattle of that section.

Dairy farms may be found in practically every county in the state which are typical of the industry generally. On such farms the inquirer will be shown a herd of pure-bred or high grade cows housed in comfortable and sanitary buildings during the winter, and provided with ample pasturage for the other portions of the year. He will find scientific equipment for testing the milk of each member of the herd and will be advised of methods in force for eliminating the nonproducers or unprofitable cows. Machinery driven usually by electric or gasoline power for cooling and separating the milk will be exhibited to him and he will be impressed by the precaution exercised by the proprietor to insure that his product reaches the market under the most approved sanitary conditions. On the larger dairy farms milking machines will be found in operation and the buildings will be found electrically lighted and supplied with other accessories in common use by the modern farmer. The silo has become an almost indispensable feature of the dairy industry and the number of these to be found on the average Washington dairy farm is governed by the extent of the individual dairyman's operations. In charge of a dairy farm such as above described, in almost every instance, there will be found a man who is not only a good farmer, but a business man as well. His family will be found comfortably housed and well provided with the conveniences which contribute to make the pleasant surroundings of a modern American home.

It is not to be understood, to be sure, that every dairy farmer in the State of Washington conducts his business under such favorable conditions as are above outlined. There are those who still adhere to scrub stock and who in other ways lag behind the procession. But the general tendency among the men and women engaged in dairy farming in this state is to build up better herds and to provide themselves with the equipment which experience has shown to be necessary for a realization of maximum results from the industry in which they are engaged.

Some mention already has been made of the principal crops which the dairymen produce for the purpose of supplying feed for their herds. Other products of less importance, perhaps, but which are important contributors to successful dairying in Washington, may be named. In Western Washington such crops as white and red clover for pasture, and oats, barley, wheat, rye, peas, vetch and kale, will be found extensively grown. Alfalfa and corn are the standard dairy crops in Eastern Washington, but these are supplemented frequently by pasture lands of native grasses, barley and oats and heavy crops of various root products.

Markets.

The question of markets has never been a serious problem for the Washington dairyman. In districts where any considerable number of farmers are engaged in the industry one or more creameries will almost invariably be found in operation. These creameries maintain a regular service for collecting the cream from their patrons. In the vicinity of the large cities a profitable market is found in supplying the demand for fresh milk and cream and in several districts large condensing plants have been established which are in the market for an unlimited supply of milk. The Alaska trade is also a heavy consumer of Washington dairy products and the business of Washington dairymen with Uncle Sam's great northern territory is certain to grow and expand with the coming years.

LIVE STOCK.

It probably is correct to say that no industry of the State of Washington has undergone greater changes, due to the rapid development and settlement of the state, than has the live stock business. In early territorial days much of the eastern portion of Washington was an open range. In this vast region broad areas of bunch-grass and other native forage feed was offered to the livestock men and became the basis upon which many of them accumulated large herds of cattle and horses and immense bands of sheep. The range was open and free and apparently was inexhaustible in extent. The cattle men flourished and became wealthy. But with the advent of railroads and the influx of thousands of settlers bent upon securing homesteads in the open areas of the state the situation became materially modified. The open range began to disappear before the encroachments of fenced-in farms and the large herds which formerly had ranged the plains without let or hindrance materially dwindled.

This process has been in progress for many years, but it has not resulted in wiping out the livestock industry nor in fact should it be said that the business as a whole has decreased either with respect to the number of livestock in the state or with reference to actual cash returns to those engaged in the industry.

The vital difference is found in the fact that the comparatively few stock men who formerly numbered their herds by the thousands have been succeeded by thousands of farmers each owning a comparatively small number of cattle. One result has been that a far superior grade of stock is now produced in the state than was the case under the earlier conditions. The farmer who annually markets a few head of fat steers has found it to his advantage to produce a high grade animal rather than to bother with the scrub stock of the earlier days. The markets of the state are largely supplied with beef cattle from these small farmers, and the number of marketable animals secured from this source increases annually.

In some sections of the state feeding on a large scale is still practiced and will be for many years to come. There are numerous ranges of hills in Eastern Washington which have not been placed under cultivation and are not likely to be for several decades. Such locations often furnish excellent range and full advantage is taken of every such opportunity. In the irrigated districts of the state where large crops of alfalfa are annually grown, thousands of steers are brought in from other states each fall to secure the benefits of the late pasture. The climate of these sections is admirably adapted to the wintering of stock. After the alfalfa pasture is exhausted the animals are fed through the winter on alfalfa hay and are topped off for market with a liberal feeding of corn and some other grains.

Forest Reserve Pastures.

In addition to the foregoing, opportunities for pasturing stock are offered on the ranges which are located within the government forest reserves. These reserves cover practically all of the mountainous area of the state extending often well down to the foothills. Much of the lower areas within the reserves furnish excellent pasture and there is lively competition among the stockmen for the more favorable locations.

Horses.

In spite of the fact that automobiles and motor trucks are being utilized on a constantly increasing scale, there seems to be no let up in the demand for good horses. According to the statistics of the United States Department of Agriculture, there were more than 300,000 horses in the State of Washington at the beginning of the present year, an increase of more than 100,000 during the past decade. What has been said in the foregoing with reference to conditions under which livestock is now produced in the state applies particularly with reference to horses. There are few, if any, horses roaming the ranges of Washington at the present time. Scattered bands will be found upon the Indian reservations and occasionally on the unfenced upland ranges but as a whole the industry is now carried on as a part of general farming operations. The breeding and sale of pure-bred horses is an industry that has assumed important proportions in this state in recent years. The favorite breeds are Percherons, Shires, Belgian, and French draft horses. For all of such animals produced in the state there is a ready market with no seeming disturbance of valuations in spite of the encroachments of the automobile.

During the past two years a steady and unfilled demand for horses of certain grades and weights has been offered to the stock raisers of this state by the various warring powers of Europe. Thousands of heads of horses have been sold at good prices to meet the requirements for cavalry and artillery animals and it is the testimony of the

buyers for the different governments concerned that some of the best stock secured by them in this country has come from the ranches of the State of Washington.

Heavy draft horses and horses suited for general farming purposes seem to be most in demand. Such animals are bred in large numbers and are finding their way to the cities for use in handling heavy trucking business and to the countless farms of Washington as first aid to the farmer in producing and marketing his crops. In almost any rural section of this state a visit to the marketing center on a Saturday or special market day will convince the inquirer of the fact that the farmers of Washington appreciate good horse flesh. Even in the smaller trading centers hundreds of teams may be seen on such occasions and the great majority of them will be found on inspection to be animals of good blood and well adapted to the purposes for which they are used.

Sheep.

According to the estimates of the United States Department of Agriculture, there were 598,000 head of sheep in the State of Washington at the beginning of the present year. The high prices paid for wool as also for mutton during the past few years have made sheep growing an unusually profitable industry. These animals are a common sight in practically all of the farming districts of the state. They will be found on the valley and lower hill lands of Western Washington, on the islands of Puget Sound, and are bred and marketed by tens of thousands in Eastern Washington. Conditions in the Columbia River basin and in the irrigated districts adjacent thereto have been found ideal for sheep. In the Yakima Valley where the industry is conducted upon an extensive scale lambing operations frequently yield better than one hundred per cent. With the advent of early spring the lambs are ready to travel and by easy stages the flocks are driven from the winter feeding grounds in the lower portions of the valleys towards the foothills of the mountains, finding forage for themselves on the way. Once in the hills excellent pasture is provided for them and the flocks follow the receding snows until the approach of fall warns the herders to head once more for winter quarters. The sheep begin to arrive back in the valleys after the final cutting of alfalfa and for several weeks of the late fall and early winter they will be found in immense numbers pasturing on the alfalfa stubble. Thereafter they are fed usually in open enclosures until ready for market. Such operations as are above described are carried on usually by men who engage in sheep growing as an exclusive occupation. The market for mutton and wool is further supplied from smaller bands bred and cared for by individual farmers upon their own premises. On the Yakima Indian reservation there are a number of Indians who engage in the sheep industry on a considerable scale and have made themselves financially independent as the result of their operations.

In the aggregate, Washington produces a great surplus of sheep and trainload shipments from this state to the eastern markets are of common occurrence.

Hogs.

The breeding and fattening of hogs for market is an industry that has undergone great development in recent years. This development has been due in large measure to the increased attention that has been paid to corn as a commercial farm crop. This important cereal, universally regarded as an indispensable adjunct to the production of first class pork, is rapidly forging to an important place in the list of grains produced in this state.

Once having demonstrated the fact that he could grow corn in quality and yield to compare favorably with the banner showings of the middle states, the attention of the Washington farmer has by the same fact been directed to the profits to be obtained from furnishing the market with fat hogs. As the corn growing area is confined largely to the irrigated districts of the state, so it will be found upon investigation that the bulk of the hogs are likewise grown in those districts. As is the case with other animals, the climatic conditions in the valleys where irrigation is practiced are favorable to the growing of hogs. Alfalfa or clover pasture will bring the animals through to the fattening period in prime condition. With corn and other grain then available for converting them into a marketable product, the farmer is able to send his hogs to the stockyards in prime condition to compete with eastern corn-fed pork.

Hogs are raised also in Western Washington upon a smaller scale. In this part of the state they are pastured and fed on various root crops and usually topped off for market with some grain. This industry is growing so rapidly that the time is at hand when Washington will be an exporter rather than an importer of high grade hogs and hog products.

Other Live Stock.

Although practiced upon a comparatively small scale, the breeding of mules has been found a profitable undertaking in several sections of the state. These animals are preferred to horses for some purposes and are always in good demand.

As a side line to the live stock industry the breeding and raising of goats has a place of fixed though minor importance. The principal breed is the angora goat, which has been found an excellent aid to settlers upon logged-off lands in clearing their holdings of the rank undergrowth which is characteristic of the western section of the state. Small bands of these sure-footed animals will be found browsing on the hillsides, clambering over logs and securing their own subsistence from the natural forage offered. From the sale of the wool the farmers realize a sufficient return for the expense involved.

CONCLUSION.

As has already been suggested, the chief purpose of this introductory chapter has been to bring the reader into contact with the field in which the Department of Agriculture operates. A great deal of detail that might have been included has necessarily been omitted by reason of space limitations, and statistical tabulations for the most part have been purposely avoided. Much of this latter data will be found presented in the following pages in connection with the reports of the activities of the various divisions of the Department.

What has been offered in the foregoing will suggest at least some idea of the varied resources of this state, particularly as applied to the industries around which the duties of the Department are centered. It is a field of limitless possibilities from the standpoint of the men who are engaged in its actual development. From the standpoint of the officers and agents of this Department it offers a field of equally boundless opportunity for useful public service.

It is a source of satisfaction to acknowledge here the energy and zeal which the division heads and their assistants have brought to the discharge of their duties. The Department is making progress with the state. It is in a sense finding its way, just as the men who are engaged in the development of the state's resources are finding their way. The work of perfecting the organization of the Department in itself has been a constant and difficult problem. It has been necessary to establish precedents, to apply the statutes to the practical situations encountered, many of which were not contemplated by the lawmakers, and the work has been handicapped in some degree by lack of adequate appropriations. Nevertheless, substantial progress has been made. The laws are being enforced, and the powerful arm of the commonwealth is being directed with increased certainty and effect in the upbuilding and encouragement of agriculture and its allied industries.

In conclusion, it may truthfully be said that the centralized plan of administration made effective under the law of 1913 has fully justified itself under everyday working conditions. Some modifications and further strengthening of the law will be required from time to time, but it is apparent already that the present plan far excels the former system in economy, efficiency and in actual service rendered to the state.

DAIRY AND LIVESTOCK DIVISION

The activities of this division during the past biennium have been greatly increased over those of the previous period. This is due in a large measure to a general stimulus in dairy farming throughout the state, and to added duties resulting from legislative enactments.

The work of the division consists of dairy and creamery inspection, the control and eradication of communicable diseases of livestock, and the enrollment or registration of stallions.

DAIRY INSPECTION.

The primary object of the milk inspection service is to advance the public welfare through the protection of the public health. To accomplish this object and to insure the public against the wilful aduleration of milk by skimming, watering and the addition of preservatives, the State of Washington has enacted certain laws regulating the production and sale of dairy products.

Cows' milk has always been a staple article of food with all classes and is one of the best and cheapest foods on the market. It is one of the principal diets of invalids and is being used more and more for the feeding of infants, and in fact is often the exclusive food of children during the first years of life. It is principally consumed in the raw state, and being a very suitable medium for almost every description of germ life, which may gain access to it in its journey from the cow to the consumer, or even in the udder of the cow herself, can become a very dangerous food, should it perchance contain any deleterious organisms.

Milk, which includes cream, butter and cheese, usually passes through a number of hands in its procurement, collection, processing and distribution, therefore the problem of milk hygiene is very complex and must embody all phases of milk control, from the time it is produced until it reaches the consumer, and since its composition and wholesomeness are entirely dependent upon its proper production and handling, the necessity for a strict supervision is obvious. Milk inspection is made to cover the health and feeding of the cattle, the cleanliness of the producing plants, the methods of handling and caring for the milk, and the condition of health of the people who come in contact with it.

ANIMAL DISEASES AFFECTING MILK.

There are certain pathological conditions in the cow itself which may contaminate and render milk unwholesome. Some of the principal cattle diseases influencing the quality of the milk are Tuberculosis, Actinomycosis, Anthrax, Cowpox, Rabies, Septicemia, and Foot-and-Mouth disease. Mastitis or Garget in the cow's udder and other septic conditions as puerperal sepsis, septic metritis and suppurating wounds all constitute a grave danger to the milk supply and therefore must be carefully supervised and controlled. Every owner of a dairy herd should consider it his duty to himself and to the community to keep only healthy cows, supply them with wholesome food, and keep them in clean, comfortable quarters. He will also find it the most profitable.

DISEASES AND EPIDEMICS DUE TO MILK.

Mr. Ernest Kelly of the United States Department of Agriculture says:

"A full realization of the dangers from an infected milk supply can be obtained by a perusal of Bulletin 56 of the Hygienic Laboratory, published in 1909. At that time Trask noted 240 milk-borne epidemics reported up to 1895 by three investigators in England and the United States. Trask himself noted 260 additional epidemics, making 500 in all. The first reported milk-borne epidemic occurred in 1857.

"Chief among these epidemics have been those of typhoid, scarlet fever, and diphtheria, and within the past few years outbreaks of septic sore throat, such as those in Boston, Baltimore and Chicago. Tuberculosis among handlers of dairy products is also a menace, though its effects do not show in startling outbreaks such as those which accompany some of the other diseases. Hardly a month goes by without some report of a milk-borne epidemic. It is true that many newspaper reports of epidemics are not founded on data of sufficient scientific accuracy to attach these epidemics absolutely to the milk supply as the causative agency; but still enough reliable instances have been recorded to make this question one of vital importance to the average community.

SOURCES OF INFECTION.

Milk may be infected in the following ways:

- 1. By diseased persons who are suffering from a mild form of malady, and who themselves come into intimate contact with the milk somewhere between the cow and the consumer.
- 2. Carriers who, while they may be free from disease, harbor the organisms, which may be carried in the milk.
- 3. Transmission of pathogenic bacteria by persons who have been caring for the sick and who afterwards handle the milk.
- 4. Contaminated water supplies, in which the milk utensils are washed.
 - 5. Fly contamination, either in the country or in the city.
- 6. The use of unsterilized milk bottles, collected from houses where disease exists."

DEFINITION OF CLEAN MILK.

"While a rigid application of the word 'clean' would exclude milk which contains foreign matter or any bacteria whatever, for ordinary purposes we may understand clean milk to be milk from healthy cows that is free from dirt and contains only a small number of bacteria, none of which are of a disease-producing nature.

By exercising proper care the number of bacteria which get into the milk during the process of milking is small, but these will increase rapidly if the milk is not kept cool until used.

If fresh milk contains a large number of bacteria, it indicates that the milk has become contaminated during the process of milking, although in some cases many of the bacteria may come from an infected udder.

If milk contains a large number of bacteria when it reaches the consumer either it is not fresh, has come from a diseased cow or has otherwise been contaminated, or it has not kept cool. Although such milk may contain no visible dirt, it is not bacteriologically clean and should not be sold as clean milk.

If milk contains large numbers of blood corpuscles or pus cells, it is an indication that the cow from which it was drawn is diseased.

Milk from a diseased cow, from one about to calve, or from one that has very recently calved possesses abnormal qualities, and though it may not always be dangerous to use, it can not be considered as clean milk and should not be used as such.

BACTERIA IN MILK.

Bacteria are single-celled plants so small that they can not be seen with the naked eye and belong to the fungi order of plant life. To most people the word "bacteria" immediately suggests disease, and while there are a number of dangerous or disease producing bacteria it is known that most varieties are classified as harmless; however, many of these so-called harmless varieties, especially when present in large numbers, have a deleterious effect upon milk by causing chemical changes in its composition and by influencing the color and odor.

Bacteria are omnipresent, being found everywhere in nature. Every particle of dirt, whether it seems to the eye a source of contamination or not, carries with it great numbers of bacteria.

All milk, unless collected under very exceptional circumstances, contains some bacteria. Milk furnishes all the food material and other necessary conditions for bacterial growth. The bacteria commonly found in milk grow most rapidly at temperatures between seventy degrees and one hundred degrees F. At a temperature below fifty degrees F. the growth is much retarded but continues slowly, as will be noted from the following table:

RAPIDITY WITH WHICH BACTERIA MULTIPLY IN MILK. Relative growth of bacteria when held at different temperatures.

 Temperature of Milk	Number per Cubic Centimeter at Beginning		Number at End of 12 Hours		Number at End of 40 Hours
ŗ	16	12	15	41	
r	10	17	242	61,280	3,574,944

The number of bacteria in milk depends first on the number of bacteria in the udder; second, on the amount of contamination from outside sources; and, third, on the rapidity of bacterial growth. The rate of growth depends on the temperature at which the milk is held and its age. It indicates the cleanliness and care observed in producing and handling milk.

Where milk contains large numbers of bacteria it is reasonable to suppose that under such conditions the danger of infection by disease germs will, as a rule, be greatly increased. For if a farmer or a dairyman is so careless and ignorant as to let his milk become so contaminated, he is not likely to be very particular about the health of his cows or of those who attend them.

Bacteria find their way into the milk from every source. Some may come from the udder itself, where they grow in the milk cisterns and ducts, but as these are always discharged in the first milk drawn from the animal, can be avoided by allowing the first few "draws" to go to waste upon the ground.

The greatest number of bacteria comes from the dust of the air, the dirt from the udder and flanks, from the milker and from unclean utensils.

IMPORTANCE OF CLEAN MILK TO THE CONSUMER.

The consumer is interested in clean milk primarily because no one cares to use a food which is not produced and handled under sanitary conditions. There is a more direct interest, however, because of the danger of contracting disease which may be communicated by this means. Serious epidemics of typhoid fever, septic sore throat, and other diseases have been disseminated through the milk supply. The weight of scientific evidence at the present time leads to the conclusion that tuberculosis may be transmitted from animals to human beings. particularly children, who consume raw milk containing tubercle bacilli.

Cleanliness is not an absolute safeguard against disease, but it is the greatest factor in preventing contamination. From the health standpoint there is great danger not only from the specific disease producing bacteria previously mentioned, but from milk that contains large numbers of miscellaneous bacteria which may cause serious digestive troubles, especially in infants and invalids whose diet consists chiefly of milk. There is also the minor consideration of the loss to the consumer from milk souring or otherwise spoiling before it can be used. The cleaner the milk, the longer it will keep good and sweet.

IMPORTANCE OF CLEAN MILK TO THE PRODUCER.

Clean milk not only benefits the consumer, but the milk producer who will consider this subject from an unbiased standpoint will find many ways in which he himself is benefited by producing clean milk. There are a number of items in this connection which, when considered alone, may seem unimportant, yet collectively they are of great importance. Moreover, they are not only of immediate value, but have a cumulative value reaching far into the future. Tuberculin testing, for example, is not only a safeguard to the purity of the milk supply for the consumer, but is a means of assisting the producer to protect his herd against future rayages of tuberculosis.

Most producers of market milk have experienced the chagrin of having a shipment of milk refused or returned because it reached the market sour, tainted, or otherwise in poor condition. Although such milk may be used for feeding pigs, it usually means a complete loss to the producer, as it costs too much to transport it back to the farm and because, depending on the market as an outlet for his milk, he has no means for utilizing small amounts at uncertain intervals. Another important consideration is the unpleasant effect upon the purchaser. Delivering sour or tainted milk usually results in losing the confidence of the dealer; or, if it is delivered direct to the consumer, it means the loss of good customers. A reputation for clean milk means fewer complaints, a better class of patrons, and a steady market for the product of the dairy.

Safeguarding the purity of the milk is a protection to health on the farm in several ways; first, the health of the farmer's family, who use a portion of the milk themselves; second, the health of the calves, which live largely on milk. Healthy cows to breed from and pure milk to feed upon are two important factors in rearing thrifty calves and in the development and maintenance of a healthy and profitable herd. Aside from these immediate and definite benefits there is another consideration, not immediately measurable but of vast influence, namely, the moral influence, for no one can learn to produce good and clean milk without learning good methods of care and management of the herd, and the study of these things leads to greater care and intelligence in the economic features of the business.

THE COST OF MILK.

There has been too much indifference on the part of consumers with respect to the cleanliness of milk; too many of them desire to buy milk at a low price and do not give any consideration to quality.

Dirty milk may prove expensive as a gift, while clean milk may be economical even at a high price; the cheapest article is often the most expensive. A higher price for clean milk may be a cheap insurance against some form of sickness. It is gratifying to note, however, an increasing demand for good, clean milk. This demand has resulted in more stringent regulations concerning the sanitary conditions associated with the milk supply. Compliance with these sanitary rules requires additional care, attention, and extra expense on the part of



IMPORTED LADY.

Guernsey cow. Record 9,627 pounds milk and 536 pounds butter in one year. Has been grand champion cow at Spokane, Wash., and Salem, Oregon, fairs. Owned by A. J. Gile, Chinook, Wash.

the producer of the milk, and while this expense may not be large, it is only fair that the consumer should pay his share of the cost of improving the quality of the milk. The consumer can not expect to purchase a clean, safe milk at the same price as a dirty milk which endangers the health of his family.

A more serious consideration is the market increase in the cost of production which has resulted in recent years from feed and labor problems. This increase is in keeping with the increase in the cost of almost every commodity, and the consumer must expect to pay his portion of any legitimate increase in the cost of production occasioned by these conditions.

On the other hand, there is need of more attention to better management on the average farm devoted to the production of milk. The amount of milk produced per cow is frequently so low as to reflect

seriously upon the business ability of the owner. A producer who makes no systematic effort to lower the cost of production by increasing the average production of milk per cow is entitled to little sympathy if he finds the business unprofitable. The profits yielded by a good cow often go to offset losses caused by poor cows in the same stable. The keeping of records of production of each individual in the herd. the elimination of unprofitable cows, the improvement of the herd through selection of the best producers and breeding them to a bull of dairy merit, and the selection of the best heifers from such breeding are necessary to put milk production on a sound basis. Unless the producer does these things he disregards the fundamental principles of business economy, and it is unreasonable for such a man to expect the consumer to pay him a profit on business practices which represent such economic waste. There is no good excuse for slack business methods on the dairy farm. Directions for keeping records of milk yields and cost of production are furnished by the Washington State College and by the Department of Agriculture."*

DAIRY INSPECTION.

It will be evident from the foregoing remarks that the duties of a dairy inspector cover a very broad field, and are very exacting and important. In order to be able to offer expert advice a thorough knowledge of milk, its formation, procurement and characteristics are necessary; likewise, a knowledge of conditions which have an influence upon milk while still in the animal body and the factors which change this food after it is taken from the cow, therefore our field inspection force consists of men especially qualified for the work at hand both by technical and practical training.

While the work as outlined in the statutes is of a regulatory nature and carries full police power, we have found through experience that more efficient inspection is possible through intelligent co-operation with the farmers themselves. So our work has been largely educational both with the producer and distributor. We find much of the poor milk is due to ignorance and not to any wilful intent.

During the period covered by this report there have been three dairy inspectors and one creamery inspector employed by the department, and while we have endeavored to carry our work into each of the thirty-nine counties of the state, we have found this to be physically impossible with this number of field men.

As a matter of economy and efficiency based upon experience it has appeared best to divide the state into five dairy districts. Each of these districts include several counties and are based upon the approximate number of dairy farms, population and transportation facilities.

^{*}Farmers Bulletin No. 602-U. S. Department of Agriculture.

Early in the biennium it was decided to have the inspectors visit each dairy farm of a county in their district before taking up the work in another county, and while this has been fairly successful, we have, on account of emergency complaints and other calls for assistance, been obliged to deviate from this fixed program.

The inspector in his work uses the score card system of rating dairy farms, which has been found to be one of the best methods of assistance both to the farmer and the inspector.

Each dairy is given a number on the score card and these cards are mailed to the Olympia office every week. The inspector has a map of each county and as fast as these dairy farms are visited he locates the farm on the map by recording the duplicate number appearing on the score card. These maps when completed contain the exact location of each dairy farm in a county, and are filed with the Department at Olympia.

During the period we have compiled complete maps of Whatcom, Snohomish, Thurston, Grays Harbor, Lewis, Pacific, Wahkiakum, Clarke and Cowlitz counties and find these very valuable as references. Maps are now being completed as fast as is consistent with good service of the other counties of the state. The reports indicate that our inspectors visited nearly 1200 dairies in Whatcom, seven hundred in Snohomish, and nine hundred in Lewis counties. It is hoped with additional assistance to have all the census maps compiled during the next two-year period.

In addition to the inspections of milk supplies for insanitary conditions, these inspectors, by reason of their training, are continually being called upon for information and advice relating to the various phases of dairy farming, such as correct and balanced rations, testing, breeding questions and proper markets. We have also co-operated with the State College in the organization of co-operative cow testing and other societies, and I would indeed feel that we have been remiss in our duty if the importance of this work, which means so much to the welfare of the dairy industry of Washington, was not mentioned and recognized in this report; therefore we are incorporating herewith a short article by O. E. Gibson, Dairy Field Agent of Extension Division, Washington State College, covering the organization of these associations, their results and value.

RECOMMENDATIONS.

Dairy farming is followed in greater or less degree on at least seventy-five per cent of the farms of the state. It is, however, more extensively developed as an industry in Western than in Eastern Washington, as is indicated in the accompanying tables, but in those counties east of the Cascade range it is becoming more and more prominent in their scheme of diversified farming.

The total value of dairy products sold as market milk and cream, condensed milk, butter and cheese, are shown herewith, and while these figures represent several million dollars they do not take into consideration the value of milk sold from one and two cow dairies or the value of the butter manufactured upon the farm and classified as dairy butter. The value resulting from an increased fertility of soil on account of dairy cows would, in my judgment, if it could be figured in dollars and cents, amount to fully as much as the returns received from these direct sales.

The opportunities and natural advantages for dairy farming in Washington are not exceeded by any other state of the Union, and it is to develop these possibilities and establish a profitable system of agriculture that our aims are directed.

Considering the importance of the development of the industry to the state, the total number of dairy farms, the character and value of the inspection service to the public health and the territory to be covered, it is respectfully recommended and urged that appropriation be made to cover five dairy inspectors and one creamery inspector. An increase of two men for whom there is urgent demand, based upon the growth and requirements of the industry at the present time, which are far greater than during the period when the employment of four inspectors was first authorized.

COW TESTING ASSOCIATIONS.

By O. E. Gibson, Dairy Field Agent, Extension Service, State College of Washington.

"It gives me great pleasure to submit for your approval the following brief summary of this branch of Dairy Extension work in which your department has so admirably assisted that of the Washington State College.

Statistics have proved that two-thirds of the cows in the United States are unprofitable. Experience has demonstrated the impossibility of distinguishing between profitable and unprofitable cows except by the continued use of the scales and Babcock test.

In order that records may be kept most economically and conveniently the Extension Department of the State College of Washington has been giving assistance wherever the demand has arisen, in the organizing of farmers' Co-operative Cow-Testing Associations.

Herd record books are furnished each member and a record is kept by the man employed to do the testing, of the product of each cow in the herd, together with the cost of production. The tester visits each member's farm one day in each month, records each cow's production in terms of milk and butter-fat, charges her up with the amounts of feed she has been receiving and makes a record of the profit or loss each cow returns.

It is both practical and desirable that dairymen weigh each cow's milk, night and morning continuously, but on the vast majority of farms this practice is deemed a burden. The association records taken for one day in each thirty do not give quite the accuracy in results

which could be obtained by weighing the milk each day, however, in comparing yearly milk and butter-fat records made upon the same cows at the same time, are found to correspond very favorably.

Operating in this manner it is possible for one association to accommodate between twenty and thirty farmers having a total of from five to six hundred cows. The cost of keeping these records is \$1.50 per cow per year. This money paid in to the association covers the cost of operating.

During the past year assistance has been given in organizing thirteen cow-testing associations located as follows:

Location	No. Member s	No. Cows Being Tested
Pullman, Wn	12	300 and under 350
Walla Walla, Wn		500 and under 550
Enumciaw, Wn	34	550 and under 600
Montesano, Wn	29	600 and under 650
Duvall, Wn		600 and under 650
Chehalis, Wn	30	500 and under 550
Mount Vernon, Wn	23	600 and under 650
Puyallup, Wn	25	500 and under 550
Snohomish, Wn	26	550 and under 600
Olympia, Wn	38	550 and under 600
Sunnyside, Wn	2 1	500 and under 550
Chimacum, Wn		550 and under 600
Sequim, Wn	26	500 and under 550

The results being obtained through cow-testing associations are proving highly satisfactory not only to dairymen themselves but to all who are interested in the advancement of the dairy industry.

Farm work, consisting as it does in large part of manual labor, is apt to become burdensome unless intelligent understanding is the guiding principle and a definite object is in view.

The monthly visit of the tester stimulates this interest and his work places the dairy herd on a business basis. Once real live interest is aroused many channels for betterment are opened, such as improved breeding, better dairy methods, increased dairy production, and finally the cow-testing movement, being an organized effort for improvement, is conducive to better community spirit.

Very respectfully,
(Signed) O. E. GIBSON,
Dairy Field Agent."

MARKET MILK AND CREAM.

By Marcus Dey, Dairy Inspector.

A review to date of the status of the dairy industry of the state from the standpoint of the public health, is exceedingly encouraging and one of which we may well be proud. While the advancement of the cause of pure dairy products has not been proportionately as rapid as it was ten years ago, when there was room for a great deal of improvement, it has been healthily steady.

The primal endeavor of this division has been to aid all those who are connected in any way with the production or handling of dairy products, in putting these products out in a safe, clean and uniform

condition, and instruction has been made to take the place of police powers wherever possible, realizing that co-operation goes further than antagonism in getting desired results.

One phase of the problem which has seemed to warrant a great deal of attention, is the education of the consuming public to a proper appreciation of the value of high grade dairy products in order that those producing and handling these products may realize sufficient financial returns to permit of a continuation and an extension of their efforts in placing clean milk and cream on the market. The average consumer has very little knowledge of the cost of producing milk, and forgets that the price paid today for a quart of milk is but little more than the price of a quart of milk ten years ago, in spite of the fact that dairy feeds are very much higher in price and that modern sanitary methods and equipment add considerably to the cost of production. It is but reasonable to suppose that the consumer should be willing to pay more for the improved product of today, not only because of the increased cost of production, but for the value of milk and milk products, based upon the food value which they contain when compared with the relative cost of nutriment in other foods.

However, it is without the sphere of this division to interest itself in the price of milk and its products, but the division does feel that it would not be fulfilling its entire duty if it neglected to encourage the use of good dairy produce from an economic as well as from a health standpoint.

As intimated above, the division has carried on extensive field inspection of dairies, retailing or wholesaling milk or cream in the cities or towns over the state. A great deal of this inspection has been carried on in conjunction with the health departments of the larger cities. For the smaller towns milk ordinances have been submitted for adoption, in order to permit local authorities to improve their milk supplies.

Publicity has been given to milk and cream sanitation by newspaper articles, and addresses in public gatherings. A number of creameries have sent out circular letters to their patrons edited by the division, bearing on methods for the improvement of the cream supplies.

MILK AND CREAM CONTESTS.

One feature of the work of this division which has been fostered is that of the milk and cream scorings carried on in cities and creameries wherever the same have been adaptable. Within the past year assistance has been given to the health departments of Seattle, Tacoma and Everett in improving their milk supplies by means of the scorings mentioned above. In Seattle these scorings have been in the form of a contest since September, 1913, and the plan has resulted in the very material betterment of that city's milk.

In Tacoma and Everett these scorings have taken place periodically over the past year and have brought considerable improvement. In

Everett the division has been able to assist the local health department in the establishment of a milk laboratory, which is now in active work looking to a continued improvement of its supply.

Assisted by this division the health department of Seattle wrought a wonderful improvement in the sweet cream output of one of the cream stations supplying that city during the past year, by means of a cream scoring contest among the patrons of the creamery. Samples of each patron's cream were taken periodically and tested and scored for bacterial content, flavor and odor, dirt, per cent of butter-fat, acidity and temperature, which is quite similar to the basis upon



BONNIE ORMSBY LASS.

First prize and grand champion cow at the Panama Pacific International Exposition, San Francisco, California, 1915. Owned by Wm. Bishop, Chimacum, Wash.

which bottled milk in cities has been scored. After three examinations of the cream had been made prizes were given to the winners by the directors of the Creamery Association. The two outstanding results of this work are:

First, the reduction in average bacterial content of all the cream from 2,813,407 per cubic centimeter, and, second, an increase in average score for flavor and odor from 16.11 to 21.43, a perfect score being 25 points.

It will be readily seen that such improvement is most desirable, because it means both a safer cream as well as one which is in greatest demand on the market.

This work was extended to another creamery which was making butter only and had not attempted to sell sweet cream, and has resulted in the adoption of a grading system for the cream supply and increased profit for those patrons shipping sweet cream.

These scoring contests have been of great value in many ways, the chief of which are:

First: The permanent improvement of the product by an appeal to the pride of the producer.

Second: The making possible of greater financial return for both wholesaler and retailer.

Third: Have brought about the output of a more uniform product and.

Fourth: Accomplished more in less time than would field inspection alone.

(Signed) MARCUS DEY, State Dairy Inspector.

CREAMERY INSPECTION.

There are one hundred and thirty-one creameries and eighteen cheese factories in the State of Washington, which have contributed in no small degree to the development of agricultural prosperity of the state.

The output of the creameries and cheese factories for the twoyear period amounts to over 12 million dollars.

These creameries and cheese factories have principally been under the supervision of Mr. A. D. Fish, creamery inspector, but are also visited from time to time by the other inspectors in the course of their regular inspection trips.

The creamery inspectors' work, while of a regulatory nature, is largely educational and is intended to promote better methods in manufacturing and handling dairy products.

Its objects are two-fold: (1) To protect the public against the dangers resulting from wilful adulteration and insanitary conditions, and (2) to establish for Washington creamery butter and cheese a high standard of quality and purity.

Patrons of creameries are personally instructed in the care of cream and its various grades, the methods of testing in creameries are observed and instruction offered to the butter makers in the most improved and efficient methods.

Realizing that the development of the dairy industry in Washington is dependent upon satisfactory markets and that these markets depend upon the quality or standard of the products offered for sale, we have attempted, and with considerable success, to establish throughout the state a system of purchasing cream, for the manufacture of butter, on a quality basis.

Much of the poor butter manufactured in the state is due to the poor quality of cream delivered on the market, and while our dairy and creamery inspectors through personally conducted instructions, bulletins and other educational methods, have done effective work, we are unable to eliminate this poor butter without the co-operation of the creamery operators themselves. If the creamery men would pay for cream according to its true value there would be a rapid improvement in quality. Where the grading system is adopted it has proved of mutual advantage to the creameries and their patrons.

The following editorial published in the "Butter, Cheese and Egg Journal," Milwaukee, Wis., under date of June 14, 1916, is self-explanatory:

PACIFIC COAST STATES TO TRY GRADING.

"The Pacific Coast States, as dairy communities, are making every effort to profit by the experience of other dairy centers that have been longer in the business. A great step forward is being taken by the State of Washington, not alone in the agitation of buying cream by grade, but in actually putting the scheme into practice in many creameries throughout the State. And the creamery operators are enjoying the generous support of the State Agricultural Department, and the local press.

Too many patrons are misled by the impression that the quality of butter produced rests with the butter-maker, expecting him in many cases to make an A-No. 1 grade of butter from stale cream. And it is no easy matter to impress the patron with the fact that the grade or quality of cream rests largely in the care and proper handling which the cream receives while in his hands.

The system of grading as used by the Washington creameries, is something like the following:

First grade cream in the State of Washington is classed as cream that is clean, smooth, free from undesirable odors, sweet to the taste, or only slightly sour, and this receives the highest price for butter fat.

Second grade cream is cream that is too old or sour to grade as firsts, that contains undesirable flavors or odors in a moderate degree, and this grade is usually paid for at about 2 cents below grade number one.

Third grade cream is cream containing odors or flavors of onions, potatoes or other vegetables, also oil or kerosene, or is moldy or rancid. Such cream, of course, is by no means welcome, but to keep peace among the patrons, it is accepted where it is not worthless, and it is paid for at never more than five cents below first grade.

Quotations on cream are usually sent out as based on the first grade only, and the above will possibly be of value to any creamery deciding on instituting an arrangement for buying cream by grade, which is the only fair way of paying the producer, and the profitable way for the creamery. However, first grade cream should be sweet, otherwise the classification if followed strictly will result in a better product, if some of the concerns will not accept second grade cream and pay the highest price for it, and depend upon the renovating methods to improve the cream so the butter will be passable."

The farmer holds the key to the quality of the butter manufactured and the price received for the same. Good butter which brings top market prices can be made only from good cream and the quality of the cream in turn is controlled by the care it receives on the farm.

Every year at the State Fair in North Yakima we hold a scoring contest for market milk and cream, also for butter and cheese. Entries in these contests are made from all over the state and are of immense value as an educational measure. The scorings are made by experts in the service of the United States Department of Agriculture, who explain in detail their reasons for the scores. These contests establish a standard and are the means of demonstrating to the producer or manufacturer their weak points.

REPORT OF DAIRY INSPECTORS.

JULY 1ST, 1914, TO JUNE 30TH, 1916.

Marcus Dey, September 1, 1915, to June 30, 1916.

- G. G. Carman, August 1, 1914, to June 30, 1916.
- C. S. MacBride, May 1, 1915, to June 30, 1916.
- I. J. Minnick, July 1, 1914, to April 1, 1915.
- J. E. Harter, July 1, 1914, to March 1, 1915.
- J. H. Martin, April 1, 1915, to May 1, 1915.
- A. D. Pish, July 1, 1914, to June 30, 1916.

INSPECTIONS	Marcus Dey	G. G. Carman	C. S. MacBride	I. J. Minnick	J. E. Harter	J. H. Martin	A. D. Fish	Totals
Dairy inspections	522 18 28	2,989 61 189	1,924 4	509 6 5	1,048 29 39	34 5 12	594 167 1,020	7,615 290 1,292
Cheese factory inspections Condensed milk factory inspec-	ī	21	·····•				1,020	23
tions	2 18	3 288	2 29	1.9	20	 	6 866	13 1,234
Samples of cream for butter fat. Samples of butter.		514	2	ĩ	8		888	1,854
Samples for bacteriological or chemical examinations	364	14	1				109	491
Milk cans inspected	1,751	8,558 108	1,884	273 1	928 48	97	8,094 283	16,585 479
Wagon inspections	36	824 5	76	36	42	4	189	707
Complaints answered	9	82	2	5	81		94	223
Orders issued	266 49	208 238	717 47	236 1	140	2 11	254 301	1,732 787
Dairies, creameries, stores, depots and factories closed	818	44	135	6	2	ļ	50	1,060
Cows inspected	6,523	58 10		6	····ii	719	2 7	7,302 35
Convictions	₹20.00	\$75.00	ļ	\$5.00	\$95.00		8	\$265.00

DAIRY ANALYSES BY STATE CHEMISTS.

By Profs. Elton Fulmer and Geo. Olson, Pullman, Wash. (State College).

BUTTER		М	LK	CREAM		
Legal	Illegal	Legal	Illegal	Legal	Illegal	
0	o	n	8	10	o	

84 total analyses.

By Dr. C. W. Johnson, Seattle, Wash. (University).

BUTTER		м	ILK	CREAM		
Legal	Illegal	Legal	Illegal	Legal	Illegal	
44	0	306	17	54	0	

2 samples cheese (legal).
425 total analyses.
42 bacterial counts of milk.
136 bacterial counts of cream.

TOTAL PRODUCTION OF MILK AND CREAM BY COUNTIES.

FOR YEAR JULY 1, 1914, TO JUNE 30, 1915.

				: 	
COUNTY	Gallons of Milk	Value of Milk	Gallons of Cream	Value of Cream	Total Value of Milk and Cream
Adams	10,897	\$2,513 00	463	2 554 00	\$8.067 00
Benton	84,646	10.027 00	970	1.310 00	11.337 00
Grays Harbor	815.588	85,355 00	8.371	18,408 00	98.758 00
Chelan	87,446	30,028 00	9.027	15,587 00	45,566 00
Clallam	7,168	1,457 00	894	394 00	1.851 00
Clarke	121,276	37,858 00	4,373	6.110 00	43,968 00
Columbia	9,800	2,590 00	1.095	1.752 00	4.842 00
Cowlitz	51.970	13,666 00	810	1.196 00	14.862 00
Douglas	10,415	8,124 00	860	476 00	8,600 00
Ferry	7.842	8,083 00	306	552.00	3,635 00
Franklin	2,258	666 00	1		686 00
Garfield	4,975	1,717 00	25	30 00	1.747 00
Grant	5,840	2,219 00	l 71	96 00	2,315 00
Jefferson	51,301	15,908 00	22,254	44,546 00	60,449 00
King	4,727,538	1,592,656 00	319,391	433,916 00	2,026,572 00
Kittitas	82,779	25,424 00	8,869	4,778 00	30,197 00
Kitsap	182,650	56,655 00	5,808	7,181 00	63,786 00
Klickitat	28,296	7,313 00	246	394 00	7,707 00
Lewis	133,546	84,877 00	5,758	8,182 00	43,059 00
Lincoln	32,780	10,220 00	545	800 00	11,020 00
Mason	8,100	1,620 00			1,620 00
Okanogan	28,686	9,732 00	1,627	2,252 00	11,984 00
Pacific	96,410	25,551 00	2,583	4,105 00	29,656 00
Pend Oreille	14,700	5,010 00	368	522 00	5,532 00
Plerce	1,005,325	326,905 00	52,957	76,047 00	402,952.00
Skagit	176,310	48,011 00	4,326	6,415 00	54,426 00
Skamania	6,475	1,619 00	12	16 00	1,635 00
Snohomish	891,970	115,692 00	15,008	17,243 00	132,925 00
Spokane	1,711,879	690,388 00	153,432	253,688 00	944,076 00
Stevens	40,032	11,873 00	635	959 00	12,332 00
Thurston	109,443	30,690 00	4,078	5,161 00	35,851 00
Walla Walla	212,878	68,550 00	16,262	16,613 00	80,163 00
Whatcom	387,294	98,098 00	81,070	31,070 00	124,168 00
Whitman	122,378	31,055 00	8,503	10,647 00	41,702 00
Yakima	136,018	34,315 00	9,794	13,629 00	47,944 00
Totals	10,306,348	\$8,425,970 00	683,786	\$979,519 00	\$4,405,489 00
		l	1		
Oregon produced in Washington	319,782	\$58,423 00	3,702,433	\$3,324,4 81 00	\$3,377,904 00
Grand total	10,626,130	\$3,479,393 00	4,386,219	\$4,304,000 0 0	\$7,783,393 00

TOTAL PRODUCTION OF MILK AND CREAM BY COUNTIES.

JULY 1, 1915, TO JUNE 30, 1916.

COUNTY	Gallons of Milk	Value of Milk	Gallons of Cream	Value of Oream	Total Value of Milk and Cream
Adams	16,238	\$4,789 00	512	\$713 00	\$5,502 00
Benton	84,765	8,854 00	1,075	1,487 00	9,841 00
Thelan	97,818	80,897-00	9,821	11,514 00	41,911 00
Tallam	8,887	2,271 00	545	558 00	2,824 00
larke	105,995	80,517 00	7,585	11,808 00	42,325 00
Columbia	11,000	8,800 00	1,080	1,728 00	5,028 00
owlitz	58,310	14,719 00	1,364	1,888 00	16,602 00
Douglas	9,125	2,920 00	550	880 00	3,800 00
erry	12,245	4,692 00	845	1,504 00	6,196 00
Pranklin	40,255	14,062 00	1,820 25	2,121 00	16,189 00
Parfield	1,800 18,010	540 00 4,484 00	756	40 00 896 00	580 00 5,380 00
Frant	416,189	120,897 00	13.226	17,583 00	138,480 00
Frays Harbor	61,844	18,087 00	2.965	5,687 00	28,724 00
dag	5.042,062	1,589,764 00	324,451	581,746 00	2.121.510 00
itsap	152,860	48,489 00	4,433	8,978 00	57,467 00
Uttitas	155.071	49,297 00	4.842	6,084 00	55,881 00
liekitat	16,710	4,584 00	819	464 00	5,048 00
evis	156,261	42,502 00	5,654	7.987 00	50,489 00
ineoln	26,817	7,961.00	1,128	1,665 00	9,626 00
lason	8,650	2,200 00	80	98 00	2,298 00
kanogan	25,298	8,171 00	2,118	2,449 00	10,620 00
acific	115,360	81,451.00	2,389	8,719 00	35,170 00
Pend Oreille	20,030	6,916 00	510	786 00	7,652 0
Heree	996,652	811,014 00	58,787	69,992 00	381,006 0
kagit	142,441	40,975 00	8,796	4,557 00	45,582 00
kamania	1,575	886 00	205	208 00	591.00
nohomish	632,140	179,598 00	19,725	24,508 00	204,099 00
pokane	2,121,668	780,239 00	204,997	278,507 00	1,059,746 00
terens	29,665	9,044 00	715	1,094 00	10,138 00
hurston	119,849	36,226 00	10,716	14,062 00 17,737 00	50,278 00
Valla Walla	218,635	68,409 00 113,427 00	17,337 58,140	62,529 00	81,146 00 175,956 00
Whateom	388,300 118,634	33.851 00	7,998	12,467 00	46,318 0
vnπman iakima	182,479	88,822.00	14,017	18,704 00	57,526 0
Totals	11,487,518	\$8,656,297 00	777,965	\$1,126,676 00	\$4,784,978 0
Washington	606,476	96,506 68	2,846,054	2,228,571 30	2,315,074 9
Grand totals	12,048,989	\$8,744,800 68	8,124,019	\$8,855,247 80	\$7,100,047 9t

BUTTER PRODUCTION IN STATE BY COUNTIES.

DURING YEAR JULY 1, 1914, TO JUNE 80, 1915.

COUNTY	Pounds of Butterfat Used	Pounds of Butter Made	Value of Butter	Pounds of Butter Exported
Adams	17,611 71,074	21,156 84,930	\$7,284 00 24,982 00	
Chelan Clallam Clarke Cowlitz	6,407 751,824 198,455 179,583	7,478 927,148 245,280 217,146	2,242 00 268,967 00 75,720 00 65,144 00	8,347 44,933
Ferry	104,142 839,437 200,425	126,874 416,025 248,935	37,912 00 119,989 00 75,235 00	40,025
Jefferson King Kittitas Kitsap	247,833 2,994,112 537,568 135,761	310,254 8,720,672 678,979 168,644	98,441 00 1,136,519 00 202,463 00 51,253 00	1,185,652 6,519
Klickitat Lewis Mason	74,181 682,264 56,827	92,928 898,660 69,484	28,352 00 268,597 00 17,507 00	50,000
Okanogan Pacific Pierce San Juan	267,772 1,620 1,168,337 143,168	323,025 1,897 1,400,290 170,758	95,444 00 616 00 433,497 00 51,226 00	11,177 45,000
Skagit	398,377 1,146,394 1,261,007	457,595 1,404,937 1,585,320	152,978 00 428,076 00 481,258 00	10,223 20,638 3,278
Stevens Thurston Wahkiakum Walla Walla	56,851 383,363 234,865 623,853	68,284 409,250 290,826 743,649	19,654 00 128,790 00 86,643 00 287,462 00	9,909 18,720 246,169 131,888
Whatcom Whitman Yakima	1,444,238 140,049 1,203,168	1,758,104 173,211 1,478,031	531,289 00 52,306 00 443,588 00	52,407
Totals	,,	18,484,255	\$5,668,434 00	1,884,885
NOTE.—969,058 gallons of sour crea was imported by Oregon and ma creameries. Value	ade into butte	r by Oregon	478,340 60	
Total for period			\$6,146,774 60	1

BUTTER PRODUCTION IN STATE BY COUNTIES.

DURING YEAR JULY 1, 1915, TO JUNE 80, 1916.

COUNTY	Pounds of Butterfat Used	Pounds of Butter Made	Value of Butter	Pounds of Butter Exported
Adams	1,500 189,871	1,608 224,220	\$616 00 62,457 00	
Chelan	19,595	24,173	6,939 00	
Clallana	728,968	905,274	268,306 00	
(Tarke	248,607	310,077	92,856 00	7,689
Cowlitz	177,542	276,127	48,642 00	14,000
Ferry	79,435	98,895	29,668 00	
Grays Harbor	172,848	216,826	64,048 00	
Island	182,883	228,397	65,344 00	
Jefferson	215,471	266,380	80,762 00	
King Kitsap	3,191,129 167,946	3,861,931 210,215	1,226,194 00 60,308 00	717,000
Kittitas	500,280	609,716	176,488 00	6,094
Klickitat	91,610	113,731	83,884 00	81,800
Lewis	597,826	740,061	218,362 00	
Mason	54,635	67,132	20,140 00	
Okanogan	108,827	120,962	40,333 00	
Pend Orellie	39,408	48,749	14,675 00	2,730
Pierce	931,739	1,144,078	344,509 00	75,000
San Juan	21,054	25,617	7,127 00	
Skagit	584,389	620,082	208,836 00	
Snohomish	1,307,988 1,487,548	1,592,988 1,856,870	482,785 00 541,202 00	28,533 115,14
Spokane Stevens	76.898	91,811	24,085 00	5,837
Thurston	890,278	477.078	149,090 00	21,840
Wahkiakum	125,262	161,998	44,196 00	92,000
Walls Walls	613,118	738,187	219.721.00	153,609
Whatcom	1,412,011	1,737,959	519,176 00	20,73
Whitman	133,975	163,257	48,151 00	28,450
řakima	1,133 704	1,399,136	406,745 00	3,630
Totals	14,931,285	18,333,474	\$5,500,540 00	1,374,880
OTE530,793.5 gallons of sour cre				
was exported to Oregon creamer			l .	
Value	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • •	333,278 26	1
Total value for period			\$5,833,818 26	1

CHEESE MADE IN STATE BY COUNTIES.

DURING THE YEAR JULY 1, 1914, TO JUNE 30, 1915.

COUNTY	Pounds	Value
Clarke Cowlitz Grays Harbor Jefferson Lewis Pacific Snohomish Whatcom	240,356 67,767 56,097 206,580 5,076 124,808 186,685 221,712	\$33,988 0 9,488 0 7,553 0 30,600 762 0 31,201 0 35,709 0 38,217 0
Totals	1,065,076	\$187,477 0

CHEESE MADE IN STATE BY COUNTIES.

DURING THE YEAR, JULY 1, 1915, TO JUNE 30, 1916.

COUNTY	Pounds of Cheese Made	Value
Clarke	129,984	\$19,904 0
Cowlitz	24,040	4,100 0
Grays Harbor	223,226	34,240 0
Jefferson	223,228	81,526 0
Lewis	3,385	513 0
Pacific	122,298	18,345 0
Skagit	284,774	38,314 0
Snohomish	278,055	42,458 0
Whateom	49,421	7,570 0
Whitman	150	30 0
Yakima	7,572	1,136 (
Totals	1,346,038	\$198,031 0

CONDENSED MILK PRODUCED IN STATE.

During the Year Ending June 30, 1915.

Pounds of Cases Whole Milk Used Produced		Value	Cases Exported	
185,795,817	1,926,809	\$5,618,050,00	1,046,679	

CONDENSED MILK PRODUCED IN STATE.

For the Year Ending June 30, 1916.

Pounds of Whole Milk Used	Cases Produced	Value	Cases Exported
178.162.876	1.896.829	\$6,252,893.00	1,444,404

TOTAL VALUE OF DAIRY PRODUCTS IN STATE. Period July 1, 1914, to June 30, 1916.

Milk ar	id cream	1	 	\$14,883,440 93
Conden	sed milk		 	11,870,943 00
				11,980,592 86
Cheese			 	385,508 00
	Total.	•	 	\$39,120,484 79

LIVESTOCK SANITATION.

The livestock industry of Washington represents an investment of over forty-seven million dollars (\$47,000,000.00).

Classes and value of livestock in the State of Washington for the year 1916:

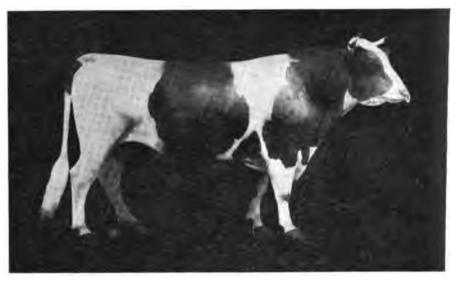
Livestock in State of Washington.

HORSES.

	Number	Value	
One year old	26 272	\$923,859	76
Two years old		1.335.613	68
Three years and over		3,129,025	76
Work horses1		16,233,399	68
Stallions		393,036	76
Mules and asses		1,892,406	12
Total2	70,964	\$23,907,341	76
CATTLE			
Yearlings	19 657	\$2,310,966	28
Two years old		2,460,321	$\tilde{9}\tilde{2}$
Three years old and over		2,801,832	80
Milch cows		11,269,455	48
Bulls		484,555	20
Total4	54,620	\$19,327,131	68
SHEEP AND G	GOATS.		
Stock sheep and goats4	93.578	\$2,644,925	17
Sheep bucks for breeding purposes	8,574	76,494	
Total5	02,152	\$2,721,419	85
HOGS.			
Hogs1	56,338	\$1,201,478	36
Value		\$47,157,371	65

During the year of 1915 there were four hundred sixty thousand (460.000) fleeces, or three million eight hundred eighteen thousand (3,818,000) pounds of wool, produced in the State of Washington.

The development of the livestock industry in Washington is receiving more attention than in the past, due principally to a realization by our farmers that the introduction of livestock as a factor in diversified farming, is essential to a sound agricultural economy. The Boys'



JOHANNA MCKINLEY SEGIS, NO. 44367.

He is a son of the world's famous King Segis, No. 36168, and the 40-pound cow, Johanna De Kol Van Beers, No. 75131, whose 120-day record of 531 pounds butter stood as a world's record for a number of years.

His wonderful conformation is very noticeably imparted to his offspring, also his producing qualities as is shown by his fine list of 34 tested daughters, one having a 33-pound record, thirteen others from 20 to 29.35 pounds butter in seven days. His entire list of tested daughters, at an average age of 3 years, 17 days, have records that average 19.55 pounds butter, 424.80 pounds milk and 3.68 per cent of fat. In this list of daughters, only four were full aged and but two were over four years old, leaving the other twenty-eight from 23 months to 3½ years of age. years of age. Owned by Carnation Stock Farms, Seattle.

and Girls' Pig Clubs, organized under the auspices of the Extension Division of the Washington State College, have contributed in no small degree to this development. The various livestock organizations have been unusually active during the past biennium and the results of their endeavors are plainly seen. Other agencies such as the transportation companies and banking associations have all contributed their quota until it now appears that this state can boast of some of the finest and largest herds of pure bred animals in the entire country.

At the San Francisco Exhibition in 1915, the State of Washington distinguished itself by the many awards won in the livestock classes. The Livestock Division, which has endeavored to encourage our farmers in the production of a better class of livestock through the use of pure bred sires and in the practice of good breeding methods, is primarily concerned in the health of our herds and flocks, for if these are to be annually devastated by such plagues as foot-and-mouth disease, tuberculosis, anthrax, glanders, sheep scab, etc., our agricultural prosperity will be undermined and dwarfed for all time to come.

BOVINE TUBERCULOSIS.

Bovine tuberculosis still continues to be the principal sanitary problem with which this division has to deal, and while the disease is not so prevalent in this state as compared to many others, due to our geographical situation and our stringent laws governing the importation of livestock, it still assumes proportions in some counties that materially decrease the profitable returns of many farms.

It is still to be regarded as the most disastrous disease of cattle and a menace of such economic importance that it can not be ignored by either the herd owners or the interests involved in the conservation of agricultural resources and the protection of public health. Every animal slaughtered and found unfit for food, is a direct tax on the public meat supply. Every cow which is removed from the milking string on account of tuberculosis, adds to the cost of milk production.

During the year of 1915 there were in the United States 32,644 entire carcasses and 48,401 parts of carcasses of cattle; 66,023 entire carcasses and 439,915 parts of carcasses of swine condemned by the federal meat inspectors as unfit for food on account of tuberculosis. The recent report of the United States Department of Agriculture places the annual loss from this disease at \$25,000,000.

Ever since the discovery of tuberculin by Prof. Robt. Koch in 1890 the subject of tuberculin testing of cattle as the principal method of controlling and eradicating tuberculosis has been a leading topic for discussion, both with investigators as well as laymen.

The investigations carried out by scientists in the study of this disease have been extremely numerous and important in their results, and the consensus of opinion as expressed in the report of the International Commission is that "the tuberculin test is the fundamental factor in any policy having for its object the control of bovine tuberculosis."

Much of the opposition to the tuberculin testing of cattle is due to the unfortunate attempts by some states to control the disease through the adoption of radical and harsh measures. These measures developed a spirit in the contests that followed which made it extremely difficult to obtain a dispassionate and impartial consideration of the measures that were required to relieve our farmers from the losses which they were suffering because of this disease. Any policy involving the eradication of a disease so widely disseminated, and one which

causes such serious losses to the animal industry, should provide some measure of financial assistance by the state in order to relieve the burdens which fall upon the owners of livestock.

In former years there were few advocates of the test among the stockmen of this state, and therefore the work of eradication was very much retarded, but as the good results became apparent, the usefulness of the test was admitted by intelligent, progressive men until now many of those who were formerly skeptical and suspicious are advocating its use as one of the principal factors in the advancing progress of the dairy industry.

The division has done much in an educational way through public demonstrations, lectures, etc., in acquainting the farmers with the character of tuberculosis, the means by which it is spread, and the measures necessary in its control. The farmers have been told that this problem of eradication is in a large measure their own and that they must realize that the healthy cow is the essential foundation of a herd; that the state is not in the livestock insurance business, and that true co-operation is necessary if satisfactory results are to be expected. We can state with pride that we have always found the majority of dairymen and farmers anxious to assist in the control of bovine tuberculosis under a reasonable and fair law, and in order to verify this statement we desire to respectfully direct your attention to the published tables of results made possible only through the enactment of Chapter 100, Laws 1915.

SUMMARY OF TESTS PREVIOUS TO CREATION OF THE STATE DEPART MENT OF AGRICULTURE.

		No. Herds Tested	No. Animals Tested	No. Reacting
1895- 6		3	28	1
1896- 8			16	Ē
1898-00			40	Ř
1900-02			387	71
1902-04		36	340	40
1904-06		97	1.456	268
1906-08		115	2,828	352
1908-10			9.310	1.317
1910-Ju	ne 10, 1913, no r	eport	,	,
	TOTALS		14.405	2.062

TUBERCULIN TESTS UNDER STATE DEPARTMENT OF AGRICULTURE.

No.	No.
Animals Tested	Reacting
June 10, 1913-June 30, 1914 6,562	349
July 1, 1914-June 10, 1915	1106

TESTS UNDER THE PROVISIONS OF CHAPTER 100, LAWS 1915.

Previous to June 10, 1915, no remuneration was allowed owners of cattle for animals found to be tubercular, therefore many were timid about having their herds tested, being afraid of financial disaster.

The enactment of Chapter 100, Laws of 1915, appropriating \$25,000.00 and providing for the compensating of owners for a portion of their losses through bovine tuberculosis, has been a very popular measure, and has had the endorsement of the State Grange, the Washington Pure Bred Livestock Association and various other livestock organizations as well as all public health officials. The present law provides, on the written application of the owner of any bovine animal, the tuberculin test will be applied by one of the inspectors of the Department. This inspector is a duly qualified veterinarian employed by the Department and who has given a bond to the state in the sum of \$2000.00.

Upon the completion of the test, if any tubercular animals are found, there are two courses open for the owner. He may select indemnity or quarantine. In case indemnity is selected, the reactors are appraised by the inspector and owner. In their failure to agree upon a value of the animals in question, the county agriculturist of the county is called upon to settle the matter. In case there is no county agriculturist of that county, the judge of the Superior Court of that county appoints a third appraiser. It is worthy of note that in testing more than 28,000 cattle, and in slaughtering 1842 "reactors," the confidence of the owners in the fairness of the inspectors is shown by the fact that a third appraiser has been necessary in but two instances.

As many cattle slightly affected with tuberculosis, in certain forms, are considered wholesome for meat, the cattle are slaughtered under the supervision of the inspector, who is guided in his decision as to passing the carcass for food or condemning it as inedible, by the meat inspection regulations of the Bureau of Animal Industry of the United States Department of Agriculture.

The carcasses are then sold to the best advantage and the proceeds of the sale remitted to the owner. If the proceeds of the sale do not equal the appraised valuation of the animal, the owner receives from the Department of Agriculture the difference between the proceeds of the sale and the appraised value. In no case, however, can the owner receive an amount from the Department that will make the amount received by the owner of a reacting animal, which upon post-mortem examination shows lesions of tuberculosis, more than \$35.00. On the other hand, if no lesions of the disease are found, the Department shall pay the difference between the proceeds of the sale and the appraisement, but this payment is limited so that the owner shall not receive more than \$75.00 for the total proceeds of any one animal.

The wonderful accuracy of the tuberculin test is shown in the following tables, where it will be noted that of a total of 1842 animals killed, 1790 showed upon post-mortem examination, evidences of the disease. When we consider that a few of these animals come under that class called "suspects," i. e., in which the reaction is not clearly defined, the results are truly remarkable.

SUMMARY OF TUBERCULIN TESTS.

PERIOD JULY 1, 1914, TO JUNE 10, 1915.

			De	Pu		ent	_) A	gr	u u	ııu	TE							
Number Herds Infected With Tubercu-			15					1 26	7	. ss			76	10	27	. en	ec :	9 21	180
Number Herds Free From Tubercu-	•		œ	1		63		97	9		-	-	3	-	원 2 .	- •	စ္တမာ	5 3 2	88
Number Herds Tested	•		ន	61		r-1		లు చే	18	00	-	-	121	•	828	- 03	ည္တစ	8 7	618
Number Sisugh- tered			8	1		∞ ⊷		~ æ	13	61			38	11	27.	60	10 03	æ 83	1,062
Number Quar- antined			60			6)		,-1		-			8			•			3
Number Sus- pects			61					60											o
Number Reacted			8	F		₽ ⊢		- 88	15	65			38	11	e 72	13	10 64	₽ 8	1,106
Number Healthy	8	15	5883	79		10		118 1,076	. Je	22	9	88	2,728	결	1,296	ŧŞ.	019 020	1,042	10,100
Number Animals Tested	8	12	879	86		11		119	179	27	9	88	3,502	121	1,806	‡ 5 <u>3</u>	615 883	1,064	11,280
COUNTY	Adams Asotin	Senton Thelan	Jarke	8 .	Vugas Perty Pranklin	Jarfield Frant	Frays Harbor	efferson (ing	(teap	illekitat dewis	dison.	Jeniogan Pacific Desard Owns	Fedu Ordine Pleace	Skagtt Blaggtt	Sa alusa Sa chusula Spokane	Servens Thurston Technickers	annarum Walia Whateom	w nichan Kakina	Totals

TABLE NO. 1-8UMMARY, TUBERCULIN TESTS.

JUNE 10, 1915, TO JUNE 30, 1916.

Number Healthy Herds	191 - 182 - 183 - 184 - 185 -
Number Herds Tested	25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Number Oows Not Showing Lesions	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Number Slaughtered With Appraisals	24 4 21 12 13 13 14 25 15 15 15 15 15 15 15 15 15 15 15 15 15
Number Slaughtered	22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Number in Quarantine	es es es es es es es
Number Diseased	24 + 5
Number Healthy	888 878 878 1,256 4,250 70 70 70 70 881 885 885 885 885 885 885 885 885 885
Number Tested	88 904 1, 386 1, 386 1, 536 1, 53
COUNTY	Adams Benton Chelan Chelan Clark Columbia Columbia Chang Grant Grant Grant Grant Grant Grang Kittia Levis Levis Levis Levis Levis Shoomis Space Shoomis Shoomis Shokane Walla Walla Whitman Whitman Totala

TABLE NO. 2.—SUMMARY, TUBERCULIN TESTS.

JUNE 10, 1916, TO JUNE 80, 1916.

	,				-				
COUNTY	Number Reacting Animals Slaugh-	Number Passed for	Number Ocn-	Total Appraised	Amount Realized from Sale	Amount Realized from Sale of "Con-	Amount Indemnity Paid by State on	Amount Indemnity Paid by State on "Con-	Total Amount Indemnity Paid by
	With Appraisals				Animals	Animals	Animals	demned" Animals	State
	83	-	19	\$743 00	\$176 72	875 56	02 946		\$515 24
	4		*	80		18 70		81 88	
	<u> </u>	æ	\$	3,844 00	2,054 00	140 47	670 06		1,870 18
	-		-			5 70			25.33
	33	7	16	883 00	101 67	26 96	76 08	567 08	643 16
	4	6	*		35	60 01	5 67		02 021
	836	3,5	113		5,456 07	25. 28.	1.902.95	3,689 52	5,572 47
	2	•	7		87 78	88 47	19 96		85.48
	10	ı,	rò		136 00	21 00	11 00		106 00
	2	-	೫	850 00	180 96	18 00	97 98		151 05
	_	-			88				
	-	-	:		16 00		15 80		15 00
	457	296	8	14 513 00	10 069 51	50 150	708 99	5 990 M	800 500
	£	8		2 360 50	1.89	5	1.068.67	3	9,000
	240	2	101	5.675.50	81. 38.	90.08	780 87	9.231 76	8,009,63
	153	8	E	4.488.09	781 90	584 80	98.48	1.896.71	1.421.57
	7	10	0	415 00	118 79	86	12 9	215 00	261 21
	9	•		167 00		15 51		151 49	151 40
	ಣ	 es		142 50	22 52				8
	8	81	4	1,886 50	240 72	228 48	124 24		1,375 30
	17	\$	-	1.420 00	1.600 00	8			14 00
	ន	12	Ξ	98 89	826 90	24 20	91 20	190 80	282 00
Totals	1,660	88	88	\$49,608 12	\$29,791 42	\$2,468 80	\$6,068 23	\$18,128 70	\$23,797.98
-	-	_	_	_	_		-		

TABLE NO. 3.—SUMMARY, TUBERCULIN TESTS.

JUNE 10, 1915, TO JUNE 30, 1916.

									_
YTNUOO	Per- centages of Reactors	Average	Percentage Passed for Food	Average Amount from Seeved from Seeved Reacting Animals	Average Amount From Sale of "Con- demned" Reacting Animals	Avorage Amount Indemnity Paid by State on "Passed" Animals	Average Amount Indemnity Paid by State on "Con- demned" Animais	Average Amount Indemnity Paid by State	
Adams			i						
Benton	2.88%	19 82	28.82%	\$25 24	88	£9 £4	88 75	¥19 81	
Chelsn	12.19%	8	:		+ 67		15 %	15 82	_
Clarke	10.02%	بة بورون	68.71%	23 28	8 12	7 22	88 83	15 08	
Columbia	100.00%	dds ov	raisal						
Grant	100.00% 6.679,	Tan duar	Murine		2			8	
Grava Harbor	200	88	22.589%	14 59	9	10.87	3 2 2	2 8	
Taland					3	•			
Jefferson	3.58%		57.14%		2 20			22 78	
King	9.12%		66.67%		2 12			16 68	
Kitsap	12.50%		60.00%		9 12			8 22	
Kittitas	6.66%		20.00%		8	2 20	18 80	10 50	
Lewis	2.67%		20.00%		89			15 11	_
Lincoln	8.80%	88	10.0%	88		2		8	
Pacific	6/30.0		Ø-200-200			On CT		o cr	
Plerce	9.56%	31.75	57.98%		4 53			13 12	_
Skagit	16.66%	81.78	64.48%	18 87	2 30	15 48	25 44	18 78	_
Shohomish	5.35%	3 3	55.42%		2 43			12 51	_
Spokane	5.07%	88	20.88%					9 35	
Thurston	1.38%	88	35.71%					18 65	
Wahkfakum	10.98%	27 88					22 22	25 25	
Walla Walla	0.64%	47 50	100.00%			26 67		28 67	
Whatcom	7.36%	83 83	27.60%	17 48	88	9	26 62 26 62	21 02	_
Whitman	9.85%	¥ ;	97.58%		8			9 7	_
Yakima	2.64%	8	52.17%		2 2 2	8 -		12 26	_
		-		_					_

RECOMMENDATIONS.

Unfortunately the division was obliged to suspend the tuberculin test work on July 1st, as there was only a small balance remaining in the fund, and consequently hundreds of cattle owners were notified that their applications could not be acted upon.



FORWARD SOMERSET DUCHESS, NO. 167221.

At the age of four years, 28 days, she made the remarkable world's record of 28.448 pounds milk in one year, testing 1,019 pounds butter. This record was strictly official for the entire 365 days. During her best seven days of this test, she produced 725 pounds milk and 28.30 pounds butter.

The photograph shown above was taken at the completion of her yearly test, and shows a remarkably well developed udder and general conformation.

A tabulated record of her performance follows:

No. Days	Milk	Butter
7	725.4 $2.840.1$ $5.699.5$	28.30 106.15 203.02
90	8.547.4 16.528.8 28,448.1	298.68 575.10 1,019.41

The test work on July 1st was in full swing as a result of our educational program and the fair and liberal provisions of the Act, and great enthusiasm existed among the dairymen; so it was with feelings of profound regret that this work was suspended.

As previously stated, the work has had the endorsement of the leading livestock associations and other organizations, and if this record is to serve as a criterion of what we may expect to do in the future it naturally follows that greater demands will be made upon this department for the betterment of the livestock industry of the

state. Therefore, it is urgently recommended that not less than \$100,000.00 be appropriated for the enforcement of Chapter 100, Laws 1915, during the next biennium.

We take no hesitancy in saying that with this amount of money we can practically eradicate bovine tuberculosis from Washington, as we now know, as a result of past work, where the infected districts are, and can confine our principal efforts at those points.

It will be noted that in the fight for the healthy cow as regards bovine tuberculosis, the question has been treated by the Department principally from an economic basis, and while the question is one that the stockmen must face from this point of view, there is another side that concerns the public—that of the public health. The health officers of many of our municipalities are now demanding certificates of health for the dairy herds supplying their cities with milk. The Department is lending its aid in each case by testing these herds free of charge.

RESOLUTION ADOPTED BY THE CONVENTION OF MILK PRODUCERS AND OTHER DAIRY INTERESTS OF THE UNITED STATES AT WASHINGTON, D. C., MAY 5 AND 6, 1916.

WHEREAS, the presence of tuberculosis in cattle is a menace to the profit of the breeder and the dairy farmer; and,

WHEREAS, its presence in the herd can, as a rule be detected by the application of the tuberculin test by men skilled in its use and when administered under proper conditions.

Resolved, That this convention urges breeders and handlers of all classes of dairy cattle to weed out reactors from their herds as a matter of protection to their own financial interests, either consigning them to the butcher or segregating them in the herd, when they are of sufficient value to warrant such manner of handling;

Resolved, That this convention heartily endorses the State-accredited herd plan of inducing breeders voluntarily to offer their herds for official test and secure a certificate which will accredit their cattle to any State without retest;

Resolved, That reasonable compensation should be allowed by Federal and State authorities for all animals slaughtered in the eradication of tuberculosis. This compensation should not be arbitrarily limited by the statute, but should be fixed by appraisal in each case, or by court decision on proof of the value of the slaughtered animals.

PURE BRED ACCREDITED HERD PLAN.

The Department has under consideration a plan to recognize tuberculosis-free pure-bred herds through the accredited system. This system is based upon the fact that the intending purchaser of cattle, to protect his herd from this disease, should deal with the healthy herd as a unit instead of the individual animal, as it has long been recognized that incipient cases of tuberculosis may fail to give a reaction to the test. These animals may later develop the disease and introduce the infection into a herd. In the case of a purchaser securing a few animals from a breeder it has been the practice in many instances to have only those few animals tested. Such a method does not show the condition of the balance of the herd, and often the integrity of the examining veterinarian is questioned. If those animals which passed

upon his certificates later develop the disease, the blame is heaped upon the veterinarian, the purchaser oft times failing to take into consideration that the disease did exist in the herd.

From the breeder's standpoint there will be much to be gained in co-operation with the Department in this matter. For instance, it is now necessary to employ a veterinarian every time a few cattle are sold, and the cost is considerable in many cases. Through the accredited plan system a certificate can be issued from this office, provided always, of course, that we have found that the herd has been maintained free from tuberculosis. This will obviate the necessity of testing immediately prior to shipment. The United States Department of Agriculture has had this system under trial, and it is believed that our state can co-operate with them and with other states for the interstate shipment of this class of cattle.

The general rules under consideration are:

- (1) The breeder shall sign an agreement to submit every bovine animal over the age of six months to the Department inspector for a test as often as may be thought necessary by the Commissioner of Agriculture to maintain the herd free from tuberculosis.
- (2) He will agree to dispose of all cattle in accordance with our present law relating to bovine tuberculosis.
- (3) He will add no cattle to his herd that have not passed a tuberculin test administered by a veterinary inspector of the Department of Agriculture, and under orders of the Commissioner of this Department.
- (4) He will agree to comply with all rules and regulations of the Department in the matter of sanitation.
- (5) He will agree not to use skim milk, whey or other dairy products originating from a non-accredited farm for the purpose of stock feeding, unless the product has first been properly pasteurized at 145 degrees F. and held at that temperature for thirty minutes.

To put this plan in operation it is necessary that we receive the co-operation of the pure bred breeders of the state. Cattle of this state, and especially the pure bred herds, show a relatively small percentage of tuberculosis, and it is to be hoped that this proposed plan of inspection, testing, and control, provided for, and certified to, by the state will afford an opportunity to the breeder to add to the value of his herd. It will have the effect of driving fraudulent dealers from the competitive market by raising the standard of the legitimate healthy herd. It will compel carefulness on the part of the breeder when in the role of a buyer he finds he must introduce new blood into his herd. And, finally, it will promote confidence in the healthfulness of these cattle, and give the buyer a knowledge of true conditions.

FOOT-AND-MOUTH DISEASE.

An outbreak of foot-and-mouth disease during the fall of 1914 presented a serious menace to the livestock industry of the United States. First appearing in Michigan, the malady spread to twenty-two

states and the District of Columbia. This disease is of such a highly contagious character and the infection so easily spread that its immediate control and eradication was of great economic significance.

There have been five outbreaks of this disease previous to the one in 1914. The first three occurred in 1870, 1880, and 1884, and were trifling when compared with those of 1902 and 1908.

In dealing with all these outbreaks a policy of quarantine and slaughter was adopted by the federal and state officials, which is the method now in common use in all countries which have so far coped with the disease. It appears better to concentrate the expense incident to the extermination of foot-and-mouth disease by purchasing and slaughtering all affected and exposed cattle after judicious appraisement, and experience in this country has demonstrated the advisability of this method.

Statement showing number of animals slaughtered and expense incurred by the federal government in connection with the destruction of animals and property, the burial of animals, disinfection of premises, etc., in the eradication of foot-and-mouth disease, October, 1914, to March. 1916:

States	No. of Animals	Amts. Paid
Connecticut	. 876	\$27,886 89
Delaware		6,360 09
District of Columbia	. 53	3,769 96
Illinois		1,472,049 68
Indiana		91.404 74
Iowa		68,143 67
Kansas		42,576 67
Kentucky		74,934 16
Maryland		43,907 48
Massachusetts		115,789 14
Michigan		114.067 24
Minnesota		1.306 62
Montana		34,883 28
New Hampshire		3,006 13
New Jersey		67.157 00
New York		251.092 87
Ohio		193.293 41
Pennsylvania		566,717 00
Rhode Island		41.899 66
Virginia		14,246 42
Washington		2,025 00
West Virginia		8,392 38
Wisconsin		69.454 10
***************************************		50,101 10
Totals	172,720	\$3,314,363 59

The amounts paid by the several states were approximately the same as paid by the federal government. Salaries, travel, and miscellaneous expenses of bureau employees amounted to about \$1,115,000 in addition to total of statement.

WASHINGTON OUTBREAK.

On November 10, 1914, the State Department of Agriculture received information that two cars of cattle en route from Wisconsin to Roy, Wash., had been unloaded and fed on November 5th in yards at the Minnesota transfer situated near St. Paul, Minn., and that these

pens were occupied November 2d by cattle which were later found to be affected with foot-and-mouth disease on arrival in Montana. The advices indicated that this shipment would arrive over the Northern Pacific railway as it was presumed at that time to be in transit somewhere in Montana.

Dr. F. H. Mason, Spokane, Wash., and Dr. C. M. McFarland of the Bureau of Animal Industry were notified to be on the lookout for this shipment and upon its arrival inside the State of Washington to immediately quarantine all animals for subsequent developments.



LILY OF WILLOMOOR AND HER CALF.

World's record cow. Produced 84,891 pounds of milk and 3,362.05 pounds of butter fat in five years. Owned by J. W. Clise, Seattle Wash.

The cattle did not arrive at Spokane until November 13, 1914, when an examination was made in special corrals, constructed for these cattle by the transportation company. The first examination revealed a slight stomatitis, or inflammation of the mouth cavity, with no apparent lesions among any of the animals. Immediately upon receipt of this advice, the cars containing the shipment and the individuals caring for the animals, were placed in quarantine with the cattle.

On the morning of November 16th, a positive diagnosis of foot-and-mouth disease was made by the state and federal inspectors. Approximately fifty per cent (50%), or fifty-one animals, displayed lesions of foot-and-mouth disease three days after their arrival. Im-

mediate notice was given to Mr. H. S. Royce, the owner of these cattle, and on Wednesday, November 18, 1914, the shipment, consisting of thirty-two (32) pure bred Holsteins and seventy (70) grade Holsteins, were appraised. The pure bred animals were appraised at fifty dollars (\$50.00) each and the grade animals at thirty-five dollars (\$35.00) each, making a total of four thousand and fifty dollars (\$4,050.00). The appraisal was made and estimated on the beef basis, Mr. David Munroe of Spokane representing the owner, Dr. C. M. McFarland representing the federal government, and Dr. H. T. Graves the state.

By Saturday, November 21, 1914, all the cattle had been killed and cremated, cars thoroughly disinfected and all pens, litter, etc., safely disposed of.

It has been the policy of all other states of the Union to compensate the owners of condemned cattle on a basis of one-half the appraisal value, the federal government paying one-half and the state where the outbreak occurred paying the balance. The foregoing statement indicates the amounts paid by the federal government and the various states.

In handling and disposing of this one outbreak we enjoyed the fullest co-operation by the owner of the cattle, Mr. H. S. Royce, Kapowsin, Wash. During the 1915 legislative session it was recommended that Mr. Royce be reimbursed, after the policy prevailing in other states, but unfortunately this was not done. I sincerely trust that the next legislature may see the justice of this recommendation and allow Mr. Royce \$2,050.00, which is one-half the appraised value of the cattle destroyed in 1914. He has received this amount from the government. The actual value of the animals was many times that amount, as thirty-two of them were registered and of pure breeding. We were certainly fortunate in having the assistance of Mr. Royce, for if the infected animals had been held in quarantine on account of legal restrictions, it is likely that the situation would have been very serious in so far as the livestock industry of this state is concerned.

Subsequent to the Spokane outbreak the Department traced and examined every shipment of livestock that had entered the state since October 1, 1914, and supervised the disinfection of 2,000 livestock cars and every public stock yard in the state.

Quarantine restrictions against an importation of livestock from other states were enacted and every additional precaution taken against a recurrence of the trouble.

GLANDERS.

For many years the prevalence of glanders among the horses of the commonwealth has been widespread.

Years											A					les i mi		Animals Reacting and Destroyed
1895-6														1	38	8		15
1896-8															34	4		20
1898-00															5	8		46
1900-2														1	5	Ř		41
1902-4															3			$\overline{24}$
1904-6																		107
1907-8																		īši
1909-10																		255
1913-14																		28

During the period of this report we have investigated 125 different reports of this disease. There have been 1,234 horses tested with Ophthalmic Mallein, or the blood complement-fixation test. One hundred and fourteen (114) horses reacted and have been destroyed.

The problems connected with the suppression of this disease are many and difficult of solution.

A very important factor in the success of our method of control has been the prompt killing of animals showing clinical symptoms. Exposed animals are tested with the Ophthalmic Mallein test and all positive cases are also destroyed. The premises, stables, troughs, etc., are all carefully disinfected under the supervision of the examining inspector.

We are usually able to complete the destruction of diseased animals without difficulty, but occasionally we find an owner who is inclined to hide the disease. These cases are troublesome and ordinarily involve court procedure. Destruction of diseased animals under these conditions is carried out on the principle of abating a public nuisance.

The disease has appeared in Adams, Columbia, Chelan, Douglas, Franklin, Ferry, Garfield, Grant, King, Lincoln, Okanogan, Spokane, Walla Walla, Whitman and Yakima counties.

The following rules and regulations relating to the control of glanders are now in force:

STATE OF WASHINGTON-DEPARTMENT OF AGRICULTURE

ORDER NO. 5.

Rules and Regulations Concerning Gianders or Farcy.

- 1. In all cases of suspected glanders or farcy, the owner or party in charge shall immediately isolate the suspected animals, then notify the commissioner of agriculture, describing symptoms exhibited by suspected animals, and advising of the present location of the isolated animals.
- 2. When the Commissioner of Agriculture or his regularly authorized agent determines by unmistakable examination that an animal is affected with a dangerous, communicable disease known as glanders or farcy, such animals shall be destroyed and the carcasses immediately disposed of by burning or burying not less than six (6) feet in the earth.
- 3. Immediately after slaughter the premises must be thoroughly disinfected as prescribed by the examining Veterinarian. All exposed or contact horses must be quarantined on the premises and tested with mallein or complement fixation test at the earliest possible moment, and all typical reactors destroyed. After the premises and all objects with which the diseased animals

have come in contact have been burned or thoroughly disinfected, all animals mallein tested that have failed to react may be released from quarantine.

Sec. 2, Chapter 100, Laws of 1915.

WILSON JOHNSTON, ELMER E. HEG. H. T. GRAVES,

Commssioner of Agriculture,

Olympia, Wash.

PREDERICK R. HEDGES,

MRS. MARION M. MCCREEDIE,

State Board of Health.

Effective June 11, 1915.

HOG CHOLERA.

Hog cholera continues to be a menace to the swine industry of the state, and although it has not reached the degree of prevalence as reported in our first biennial report it is still a factor to be considered by the hog raisers.

Walla Walla, Whitman, Okanogan, Klickitat, and Yakima counties have been most seriously affected, but by prompt quarantine and serum inoculation measures coupled with sanitary requirements and disinfection of the premises, I am pleased to state that the ravages of this disease are abating.

The outbreak in Walla Walla county reached such proportions in 1914 that the following quarantine was issued from this office December 11, 1914:

STATE OF WASHINGTON-DEPARTMENT OF AGRICULTURE.

OLYMPIA, WASH., Dec. 11, 1914.

"The fact has been determined and notice is hereby given that a contagious, communicable disease, known as Hog-Cholera exists in the swine of Walla Walla County.

Now, therefore, I, H. T. Graves, Acting Commissioner of Agriculture, under authority conferred by Section 2, Chapter 167, Laws of 1895, do hereby quarantine that portion of Walla Walla County, twelve (12) miles up Mill Creek, East from Walla Walla; thence, South four and a haif (4½) miles to State Line; thence, West along the State Line to Twilight; thence, along the course of the State Macadamized Highway to Walla Walla, the place of beginning.

During the existence of this quarantine the movement, or trailing, or driving of swine, or the carcasses of swine, from the area hereinbefore quarantined, to any point outside the quarantined area, is prohibited, except said movement of swine be for immediate slaughter under U. S. Government meat inspection regulations, or after the carcasses of swine have been passed by State or Federal inspectors for food purposes.

'Signed) H. T. GRAVES,
Acting Commissioner of Agriculture."

These restrictions remained in force until the spring of 1915, when conditions warranted the revocation of the quarantine, and on order issued from this office March 6, 1915, again placed this district in the free area.

An attempt by members of a serum company of Oregon to secure immune hogs for an anti-hog-cholera serum plant located at North Portland, infected a number of hogs near Goldendale, Klickitat county, during the winter of 1916, in which approximately 200 animals were involved. This incident brings forcibly to mind the vigilance, care

and technique required in handling hog cholera virus without danger to the health of the animals. Such a danger as this was foreseen when the following order was issued:

STATE OF WASHINGTON-DEPARTMENT OF AGRICULTURE.

ORDER NO. 4.

Regulations Governing the Sale, Distribution and Use of Anti-Hog-Cholera Serum, Also the Sale and Distribution and Use of Serum and Virus Within the State of Washington.

- All anti-hog-cholera serum sold within the state or imported into the State of Washington for sale, distribution or use shall be produced under a license issued by the U. S. Bureau of Animal Industry, Department of Agriculture.
 - (a) The use of anti-hog-cholera serum is not restricted in any way.
- 2. The sale, distribution or use of virus shall be prohibited except under the following conditions, to-wit:
- (a) All virus used for immunizing hogs against cholera shall be administered by an authorized veterinary inspector of the Department of Agriculture
- (b) No virus shall be shipped into the State of Washington or sold for distribution except to an authorized veterinary inspector of the Department of Agriculture.
- (c) All hogs subjected to the simultaneous method of immunization, together with all yards, corrais, sheds or feeding lots to which said hogs have access (which corrais, yards, sheds, or feed lots must not be adjoining a public highway), must be quarantined for a period of not less than thirty days. Conspicuous notices of quarantine shall be posted upon said premises in the form of a placard furnished by the Department of Agriculture.
- (d) All hogs subjected to the simultaneous method of immunization must be dipped in one of the standard recognized dips before being released from quarantine, and all yards, corrais, sheds or feed lots in which said hogs had access must be thoroughly cleaned and disinfected. Dipping of hogs, thorough cleaning and disinfecting of yards, corrais, sheds or feed lots must be done under the supervision of an inspector of the Department of Agriculture.
- 3. Veterinary inspectors administering virus shall immediately render full report to the Commissioner of Agriculture, giving names and addresses of owners and numbers of hogs treated.
- 4. The violations of any of the above rules and regulations will constitute a misdemeanor.

H. T. GRAVES,

Olympia, Wash.

Commesioner of Agriculture.

Sec. 2. Chapter 100. Laws of 1915.

WILSON JOHNSTON,

ELMER E. HEG.

FREDERICK R. HEDGES,

MRS. MARION MCCREEDIE,

State Board of Health.

Effective June 11, 1915.

Realizing the possible danger of introducing foot-and-mouth disease by the anti-hog-cholera serum secured from districts in which that disease existed, Department Order No. 1, under date of April 6, 1915, prohibited the importation of aforesaid serum from certain states where that disease had been prevalent or which had been exposed. This order remained in force until August 1, 1915, on which date it was repealed by Department Order No. 8.

H. T. GRAVES,

Olympia, Wash.

Commssioner of Agriculture,

Department Order No. 3, relating to the control of hog cholera and swine plague is appended and is self-explanatory. As the control of this disease depends upon the co-operation of the owner, it is to be hoped that cases of deaths of hogs in which symptoms of hog cholera are shown will be promptly reported to this Department.

STATE OF WASHINGTON—DEPARTMENT OF AGRICULTURE.

ORDER NO. 3.

Rules and Regulations Relating to Hog Choiera and Swine Plague.

RULE 1. When an outbreak of hog choiera or swine plague appears, the owner must immediately notify the Commissioner of Agriculture, or an authorized veterinary inspector of the Department of Agriculture.

The said officer shall quarantine all portions of the premises upon which hog cholera exists, and placard same with card furnished for this purpose.

Rule 2. All persons, except the owner, duly authorized assistants, medical advisor, are forbidden to enter an enclosure where diseased hogs are confined.

Rule 3. Hogs must not be moved from any quarantined premises except by permission of the Commissioner of Agriculture or his authorized agent.

RULE 4. It shall be the duty of the owner, or any other person having in charge any swine that have died of any disease, immediately upon the fact of such death coming to his knowledge to burn the same to ashes and clean and thoroughly disinfect his pens, yards, and swine houses.

RULE 5. No person shall feed any hotel, restaurant or eating house swills or refuse of packing house offal to swine unless the same has been thoroughly cooked and rendered free from the possibility of carrying hog cholera or other infection that might be transmitted through a cholera infected ham or bacon rind. All dogs in a district where hog cholera is known to exist must be restrained from running at large and must be confined to owner's premises.

RULE 6. All railroad cars, steamboats and other means of transporting hogs must be thoroughly cleaned and disinfected before hogs shall be allowed shipment if for purposes other than immediate slaughter.

RULE 7. All hogs allowed to come in contact with any public corral, yard, chute, or undisinfected railroad car shall be considered as exposed to hog cholera and shall not be sold for feeding or breeding purposes unless immunized with Anti-Hog-Cholera Serum.

The violation of these rules and regulations constitutes a misdemeanor.

Sec. 2, Chapter 100, Laws of 1915.

WILSON JOHNSTON,

ELMER E. HEG.

PREDERICK R. HEDGES,

MES. MARION M. MCCREEDIE,

State Board of Health.

Effective June 11, 1915.

ANTHRAX.

Anthrax is primarily a disease of domestic animals and in some states is one of the great scourges of animal life. It is also a disease which is communicable to man, and during the past year several deaths in persons are recorded.

The disease is transmitted in a number of ways and assumes different forms, all of which are especially virulent.

During the period of this report we have investigated several reported cases of anthrax. Dr. G. A. Jones, Sedro Woolley, reported

an outbreak of anthrax on the premises of H. L. Robertson, Van Horn, Wash., in February, 1915. Blood specimens were forwarded to the federal public health laboratory at Seattle and identified as probable anthrax, so as a precautionary measure all exposed animals, numbering one hundred and two (102) head, were given anthrax vaccine and the premises thoroughly disinfected. No further losses were reported.

Dr. J. H. Woodside, Redmond, Wash., reported an outbreak of anthrax on the premises of Frank Dupius, Issaquah, Wash., in March, 1915. Laboratory examination of blood and post-mortem appearances



WILLOMOOR ETTA. THIRD.

World's record two-year-old Ayrshire cow. Record 16,621 pounds of milk, 666.06 pounds of butter fat in one year. Owned by J. W. Clise, Seattle, Wash.

indicated anthrax. The exposed animals were vaccinated with no further losses.

On October 7, 1914, in a shipment of several hundred head of sheep received at the packing establishment of Frye & Co., Seattle, from Leavenworth, Wash., there were a large number of dead animals and others sick. The post-mortem appearance of the animals indicated anthrax, and we were therefore advised accordingly by Dr. J. Madsen, inspector-in-charge at Seattle. Chelan and Okanogan counties were placed under temporary quarantine pending further investigation and the movement of sheep from these counties suspended. Several bands

of sheep which had just moved overland from these counties were traced and examined by our inspectors with negative results.

The inspectors also traced and examined 3,500 sheep of the band from which the Seattle shipment was made. No evidences of disease could be found in this band. The following report indicates the completeness of this investigation:

NORTH YAKIMA, WASH., Oct. 16, 1914.

"H. T. Graves, Olympia, Wash.

DEAR Siz: My findings regarding the reported outbreak of anthrax were as follows: On October 1st the bands belonging to Forest Wenner of this city were corraled at a point approximately fifteen miles southwest of Pateros in according to reports) good health, the lambs were separated from the ewes, the former were driven to the stock yards at Pateros, the latter in a south-easterly direction to the Columbia River Ferry at Entiat (the former place in Okanogan County, the latter in Chelan). On Monday morning the lambs were loaded aboard cars furnished by the Great Northern Railway and shipped to Frye & Co., at Seattle.

The ewes were crossed over the Columbia River at Entiat into Douglas County and driven in a southernly direction with White Bluffs as their objective point. The ewes were crossed on Tuesday and Wednesday, October 5th and 6th.

The first manifestation of disease or sickness appeared among the lambs about twenty-four hours after they were separated from their mothers, and on the trail to Pateros the herders thought little of it on account of them being subject to severe exposure in the nature of a heavy snow storm. The exact number that died before loading aboard cars I have been unable to ascertain, but do not think it exceeded twenty animals.

On their arrival in Seattle there were some forty or fifty dead lambs in the cars, death at this time was supposedly due to smothering or as the results of exposure before loading and during transit. However, following unloading the fatalities increased for two days then apparently diminished, but by this time a diagnosis of anthrax had been made by the Pacific Wasserman Laboratories of Seattle, Wash., and a diagnosis of probably anthrax by Dr. Lloyd of the Marine Hospital Service, and Dr. Simpson of the Seattle Health Department Laboratories on bacteriological examination of samples taken from dead animals, and Frye & Co. ordered all sick and exposed animals slaughtered and incinerated or tanked under sixty pounds pressure. Under the direction of Dr. Madsen of the U. S. B. A. I., all pens, sheds, cars and grounds were subjected to a thorough disinfection under the direction of Drs. Madsen and Harrington, the latter veterinarian representing Frye & Co. in the investigation.

On October 12th I recommended to your Secretary, Mr. Fuller, that in the light of developments and reports it would be well as a precautionary measure to quarantine both Chelan and Okanogan Counties, pending investigation.

After making a trip to the mentioned counties and interviewing stockmen, I found that the disease was apparently confined to the sheep of Mr. Wenner, also that his sheep were then in Douglas County at a point about twenty miles North of Ephrata. Dr. Baker, who was working with me in the matter, was asked to go and examine them and if findings justified to quarantine on the first range that they could reach that had food and water sufficient.

Before going to the above mentioned district I had examined the slides at the Seattle Health Office, also their cultures and reviewed their work in general coupled with the fact that I could not find a case of an adult sheep having succumbed to the disease, either from infection or inoculation. I have come to the conclusion that whatever the disease it positively is not anthrax. My conclusions are based on the following reasons:

1. The slides examined were not typical morphologically of Bacillus Anthracis. They contained end spores but did not show the chain formation.

- 2. The laboratories (Seattle City and Marine Hospital) were not able to grow any cultures under aerobic conditions.
- It would be impossible to have a strain of anthrax of sufficient virulence to kill lambs as rapidly as these died and not kill adult sheep also.
- 4. There is history of lambs having died last summer when being driven into the mountains of the Okanogan reserve, one firm losing 200, and another going to the Colville Forest Reserve losing between 600 and 800, but no adult sheep of those lost in the early summer were supposed to die from Phyto toxis, but symptoms were very similar to these. These lambs began dying when they got low down on the cattle ranges, in fact where they were separated was within five miles of the ranches where cattle have been ranging for years, but sheep have not been going into this range before the summer of 1912. No deaths have been reported in cattle only from the common cause among the unvaccinated calves from "Black Leg," Dr. Baker having furnished through your office vaccine to the ranchers.
- 5. The lamb innoculated experimentally at Frye & Company's yards on autopsy at which I was present showed all the post mortem symptoms of "Symptomatic authrax" and the organisms of typical rounded end club shaped end spore formation were recovered from the intermuscular spaces, the spleen was not enlarged, there was no Hematuria, the Hemolymph glands were of normal appearance. The only changes in the lungs or liver were the usual post mortem changes. There has been in all of the slides a small organism which was gram negative morphologically of the Pasteurella group and probably the bacillus ovisepticus. From all appearances in my opinion the cause of the fatalities is either symptomatic anthrax (Blackleg) or Hemorrhagic Septicemia, and I think the former.

With this evidence on hand I recommended to your Mr. Fuller on the 14th inst. that the quarantine of Okanogan and Chelan Counties be raised, but that as a precaution I respectfully advised that all cattle and sheep shipped on any road be subject to veterinary inspection until a positive diagnosis is made. There is no trace of any disease among sheep in Yakima or Benton Counties so far as I can learn.

Respectfully,

(Signed) ROBERT PRIOR,

Veterinary Inspector.

BLACKLEG OR SYMPTOMATIC ANTHRAX.

This disease affects young cattle between the ages of six and twenty-four months and occasions great losses unless the owner takes proper precautionary measures. The disease is easily recognized as its symptoms are very characteristic and is caused by the blackleg bacillus which gains entrance into the body through abrasions of the skin. It is therefore considered a wound infection disease, and occurs with more or less regularity in certain pastures, feed lots or stables.

Prevention consists of proper hygienic and prophylactic measures. It has been found that preventive vaccination is successful and during the period the division has distributed several thousand doses of vaccine to the farmers of the state which was furnished by the United States Bureau of Animal Industry.

In addition to the distribution of this vaccine we have personally investigated and diagnosed a large number of outbreaks in those sections of the state where the disease appeared to be unknown.

RABIES.

This disease has been prevalent throughout this state during the past year but in far less degree than during the period covered by the previous report.

Practically all warm-blooded animals are susceptible to the infection of rabies, the disease being the most common, however, in the dog. We have investigated a number of outbreaks in dairy herds where the animals involved have been of valuable breeding stock and the losses severe. In two dairies in particular, one in Spokane county, the other in King county, there were a large number of high-priced cattle lost through the bite of rabid dogs.

The Department has taken active measures in the suppression of these outbreaks, and while the disease is still reported from time to time we do not feel it practical to promulgate a state-wide dog-muzzling regulation at this time.

The diagnosis of this disease involves the laboratory examination of the brain of the suspected animal, and we are greatly appreciative of the co-operation of the state board of health and the city of Seattle for the many laboratory courtesies extended.

ACTINOMYCOSIS (LUMPY JAW).

A large number of cases of this disease have been investigated. Affected animals are either destroyed or quarantined for treatment, depending on local conditions and the extent of the infection.

CONTAGIOUS KERATITIS.

An infectious disease involving the eyes of cattle. We have investigated several outbreaks of this trouble in Western Washington, which have been effectively controlled through proper treatment. No animals suffering from this trouble have been slaughtered during the past period.

SHEEP SCABIES.

In April, 1915, Dr. C. M. McFarland, inspector-in-charge, United States Bureau of Animal Industry, Spokane, Wash., advised us that sheep scab had been reported in sheep and goats near Hartline. An investigation confirmed this report, except that only goats and no sheep were involved. All affected and exposed animals were immediately quarantined and ordered dipped, under our supervision, with no further spread of the infection.

VERMINOUS BRONCHITIS.

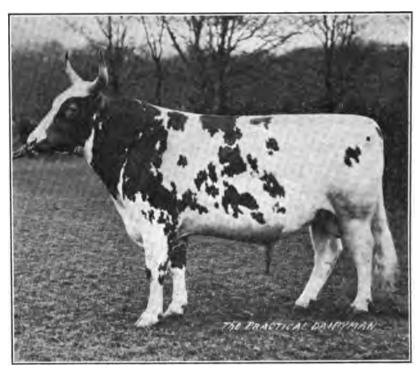
This trouble is due to a parasitic invasion of the respiratory apparatus. It is commonly called "lung worm disease." Wet seasons favor the development of the disease, as moisture insures the life of the embryo outside of the animal body; therefore the complaints and re-

quests for investigation have been extraordinary during the past season.

The proper control measures have been recommended in all cases.

CEREBROSPINAL MENINGITIS (FORAGE POISONING).

During the past two years we have investigated a number of outbreaks of this disease, which have been both sporadic as well as epizootic in form.



PETER PAN.

Most noted Ayrshire sire. Owned by J. W. Clise, Seattle, Wash.

The disease is not transmitted from animal to animal and is presumed to be due to the effect of toxins or poisonous products eliminated by fungi or mould on feed.

The disease occurred in Adams, Columbia, Grant, Spokane, and Kittitas counties.

In November, 1915, state aid was solicited by Mills & Sons, Ritzville, Wash., in connection with unusual losses among cattle. Three field veterinarians were at once detailed to investigate and found that approximately forty out of eighty head of cattle had died on one farm, and approximately the same number on an adjoining ranch, with other losses in the district.

The trouble was disagnosed as forage poisoning and a complete change in feed steadily eliminated further trouble.

MISCELLANEOUS INVESTIGATIONS.

Sickness and death among domestic animals from other diseases not classified herein are more or less constantly occurring in the different localities of this state. Often these losses are reported as being due to a contagium and an investigation is necessary in order to determine the causative factors. Improper care and feeding of animals was, in many cases, the cause of such sickness, and when the advice and instructions of the inspectors were followed, the trouble ceased.

In the spring of 1915 we were hastily notified of an outbreak of disease among sheep at Boyds, in Ferry county. Investigation revealed that these losses, which totaled over 1,500 in one band of about 2,000 sheep, were due to acute poisoning by Zygadenus or death camas. It was necessary for the division to supervise the disposal of the dead animals and issue the customary warning to other bands.

We have also been called out on innumerable occasions to investigate similar losses due to other poisonous plants. The division has also investigated and eradicated several outbreaks of lip-and-leg ulceration in sheep and hogs caused by bacillus necrophorous. One band of sheep was severely affected with the venereal form of necrobacillosis.

The prompt action of numbers of the veterinary profession of the state in reporting cases of infectious diseases coming under their observation has resulted in conserving the animal health, which, in other words, is the animal wealth of the state. The Department, and the state at large, is indebted to these men for the support and assistance they have rendered.

STALLION REGISTRATION.

The stallion and jack registration law is of prime importance to the livestock industry in that it protects the public from dishonest stallion owners. All information concerning stallions or jacks can be obtained from the Department of Agriculture, where the license certificate shows a complete record of all animals.

The provisions of the statute make possible the tabulation of the exact number of pure bred stallions in the state and the removal of unsound draft stallions from public service. The law has apparently one weak feature—that of only one examination for soundness for the entire life period of the animal. As physical faults do not always develop during the first years of an animal's life, an examination and

affidavit of soundness should be submitted every second year for renewal of license, in order to insure the utmost protection to the public.

This Department should exercise control over the veterinarians examining such animals for soundness, as there are many unscrupulous veterinarians in the state, who in many ways abuse the responsibility placed upon them under the present law.

It is urgently recommended that the legislature amend the law making the expiration of all licenses for jacks and stallions take place at a certain time, preferably the first of January every second year. This recommendation is based on two reasons: First, the cost of handling the same from the Department headquarters will be cut nearly in half because of a considerable saving in postage, stationery and clerk hire. This date will be fixed in the minds of all owners of animals, and delinquency notifications will become less and less necessary. Second, the breeding season opens in March and registrations made for the year, being accompanied with the affidavit, give better measure of protection. Renewal could be compelled by statute not later than April 1st, thus giving ample time for both public and the Department.

The present law requires this Department to recognize all associations recognized by the United States Department of Agriculture. Since the passage of the act the federal department has withdrawn recognition of all societies. This brings about a peculiar condition over which the Department has no control, and recommendation is made that the present law be amended so that recognition can be granted to all associations endorsed by the National Association of Registration Boards or the National Society of Record Associations or both, as the commissioner of agriculture shall determine.

STALLIONS AND JACKS-CLASSIFICATION BY COUNTIES.

			87	ral:	LIO	87			JAC	K3*		то	TALS	
COUNTY	Percheron	Belgian	Shire	Clydesdale	French Draft	French Coach	German Coach	Grade Stallions	Pure Bred Jacks	Grade Jucks	Total Pure Bred	Total Grade	Grand Total	Number Delinquent
Adams Asotin Benton Cheisan Clalkam Clalke Cobumbia Covitis Dooglas Ferry Franklin Garfield Grant Grant Grays Harbor Island Jefferson King Kitstap Kittitas Kitekitat Lewis Lewis Junolis Peerd Frank Grant	19 4 7 2 2 5 7 2 12 2 7 4 4 30 2 1 12 6 5 5 5 13	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 3 3 3 3 3 3 3	1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	1	1 1	14 6 10 10 1 18 7 1 41 8 8 5 5 2 2 2 1 5 11 8 8 43 51 3 1 1 2 2 3 4 4 7 7 129 7 11 2 43 6 1 8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 2 3 3 1 5 5 8 1 3 1 4 1 1 12 6 1 1 10 6 2 2	270 9 4 4 10 12 8 8 1 5 11 8 8 8 8 2 2 1 18 15 16 15 0 22 2 2 5 8 3 11 1 9 9 9 5 8 12	19 8 13 10 1 14 12 1 149 9 6 6 6 29 8 22 1 1 5 11 8 8 5 5 5 7 8 1 1 2 2 9 7 1 12 5 3 8 2 2 1 1 0	46 18 122 14 5 5 24 4 4 80 0 11 17 16 67 67 11 29 23 19 10 5 5 2 4 4 1 1 7 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1	22 32 11 22 4 3 33 88 92 21 13

[•] Pure bred, 51.56%; grade, 48.44%.

THE HORTICULTURAL DIVISION

The 1915 session of the state legislature enacted into law our present horticultural code, and in it are specified certain duties to be performed by the Horticultural Division. As members of this division we have interpreted these duties in the way that to us seems most practical and of greatest service to the fruit growing interests of the state.

The work of the Horticultural Division is now being conducted along the following lines:

- 1. Orchard work.
 - (a) Educational.

The holding of field demonstrations.

The holding of local meetings. Field surveys for horticultural data.

Crop estimates for the benefit of the fruit shippers.

Advisory work in insect, fungus and bacterial control.

(b) Police work.

The disinfection and cleaning up of neglected orchards.

2. Nursery inspection.

Licensing of nurseries.

Inspection of nurseries.

The inspection of nursery stock shipped.

The inspection of nursery stock imported from foreign countries. (In cooperation with Federal Horticultural Board.)

- 3. The enforcement of the State Insecticide and Fungicide law.
- The adoption of standard grade and pack rules for apples. Inspection of fruits for grade and pack.
- Fruit and vegetable inspection.
 Inspection of imports and exports.
 Pests and diseases intercepted.
- 6. Potato inspection.
 - (a) Educational.

The studying of pests and diseases with potato growers. Experimental certification of seed potatoes in one field.

(b) Police work.

The inspection of potatoes shipped into the State for food or seed purposes.

7. Law of commission merchants. (Recently declared null and void by the Supreme Court.)

THE ORCHARD WORK.

This is the happiest part of our duties. Were it not for this phase of our work the police duties which are sometimes necessarily destructive in principle would grow tiresome. In this work it has been and is our aim to show the farmer how to avoid dangerous mistakes in growing, irrigating, cultivating, spraying, thinning, pruning, picking, packing, etc., that go to make a crop of higher quality.

In this work we seldom are considered as intruders. On the other hand, in the fruit districts of the state we are constantly in demand from growers who call for advice and assistance. Even many of the men we have been compelled to prosecute for negligence have called for our advice, thus indicating that their respect for our work is at least equal to the ill feeling caused by the prosecution. I have insisted that all our field men keep themselves informed as to the latest information issued by the Washington Experiment Station, and other experiment stations as well. Our men should, I believe, be able to carry much of this information to the growers in a practical way while the field visits are being made.

The principal part of the orchard work is educational, and the few cases of arrests and prosecutions that find their way into the newspapers are a very small part of the work. Trained men are necessary to make this branch of the work efficient, and although all our men are not college men, we have a very good hard working set of men in the Horticultural Division.

During the past three or four seasons there has been a general increase of enthusiasm for fruit growing; however, the duties placed upon this division have been greatly increased. The duties that fall to all the members of this division require a great amount of diplomacy to get results, and as the scope of the work is now broader than has ever been attempted before in this state, it has necessarily meant greater activity on the part of our inspectors.

Pear Blight. The dreaded pear blight disease has been raging in certain districts of the state since 1910, and the excitement and realization of its seriousness probably reached its zenith during the growing season of 1914. The feeling among the mass of growers will naturally decline now, but the disease is the same serious malady, and our efforts will have to be expended vigorously to encourage uniform methods throughout the orchard districts. The enforcement of the inspectors' notices will do much to push this along, but educational work in the way of orchard demonstrations is more important and effective.

In handling blight the inspectors are instructed to get the owner of the orchard to go over the work already done and explain any mistakes that are being made. Then to demonstrate the proper methods of cutting and disinfecting the tree and to explain other details incidental to the work, such as bridge grafting methods for saving girdled trees, etc. After five years of pear blight work I am confident that the control of this disease is practical but that the complete eradication is hardly possible. Farmers may read and be told much of the necessary details of this work, but some of them, failing to realize the real value of sterilization and other necessary points, often drift back into careless ways only to find within a year or two that their carelessness has been an expensive schooling.

To explain further our viewpoint in going about the orchard work will say in a way we liken ourselves to the salesman who attains success in selling goods. The salesman cannot force a man to buy of him, but if he is handling a thoroughly reliable and valuable article, and if the salesman has unbounded confidence in it the man is influenced to believe he needs the article and is thankful to the salesman for selling him the article that has proved profitable to him. words the economics of orcharding are staring the fruit grower in the face, and we are always trying to convince the newcomer or the negligent owner or superintendent, as the case may be, that certain details are an improvement over his present methods, and that he really needs to adopt that particular practice to get better results. The details of the pear blight work are many, and owing to the character of the work cannot be reported in figures as to amount done or results accomplished. The results obtained to date plainly show that the educational work has accomplished more and better results than has the exercise of police power. There are cases, however, where prosecution is the only way to get the work done, and in such cases the arrests have been made or the work has been done at the owner's expense.

Apple Mildew. Previous to the season 1914 powdery mildew had not been regarded seriously in either the Wenatchee, Yakima or Walla Walla valleys, where the results of this injury have since become more apparent. Last year this disease was found on the trees early in the spring. It was found on the twigs and in abundance on the new growth of foliage. The effect of the mildew on the fruit itself shows as the apple reaches maturity in the shape of irregular network or scratches, sometimes covering quite a large area on the surface of the apple, thus injuring the appearance of the fruit and lowering its market grade.

The Jonathan has been the most seriously affected of the commercial varieties. In some orchards these were so badly marked that the growers have found that this disease has been the cause of many apples being excluded from the extra fancy grade. Many of the varieties have been affected by the disease but to a much less extent. It seems, however, that the greatest damage done as a result of powdery mildew infection is that the vitality of the tree is weakened and sets fewer fruit buds. It has been observed that during a period of three years' infestation by powdery mildew in some orchards that the crop has been reduced to practically nothing as a result of fruit bud injury. With this thing in view the inspector at Prosser carried on during the 1915 season a very interesting orchard demonstration for the control of apple mildew. A particular orchard, of which he had a record of former crops and handling methods, was sprayed according to a schedule worked out by W. S. Ballard of the U. S. Department of Agriculture. The materials used were iron sulphide, atomic sulphur and milled sulphur. In this particular orchard the trees had been gradually weakened by this fungus until there had practically been no crop during the past two seasons.

The sprays applied practically controlled the disease and an examination of the trees for fruit buds during September showed a marked contrast to that of the previous year. Orchard demonstrations were carried on in the Walla Walla district for mildew sprayings beginning as late as the 11th of May in a number of orchards along the state line, and in the Touchet valley of Columbia county. Observations made July 8 and September 18 show that even with applications applied at those late dates the results were surprisingly effective. In the Wenatchee valley spraying for mildew has been carried on quite generally, but has been done principally with iron sulphide. There has been a considerable amount of scorching reported to have been caused by this material, which has not been the case where atomic sulphur and milled sulphur were used, and it seems quite likely that the two last named materials will be used another season in its stead.

Grape Mildew. In 1914, as well as in the season of 1915, mildew was the cause of a great deal of damage to the vineyards about Kennewick. The owner of a vineyard near Kennewick stated that mildew in his grapes had so discouraged him that he had almost made up his mind to pull up the vineyard. In the spring of 1915 the inspector arranged with this man for a co-operative spraying demonstration for mildew control. The results have been very good indeed and the owner is greatly pleased.

In this demonstration four materials were used on four separate blocks of the vineyard. Dry sulphur, sulphide of iron, milled sulphur, and atomic sulphur were the materials used, and are materials quite generally recommended by experiment station bulletins for the control of mildew. Dry surphur gave poorest results. Sulphide of iron, atomic and milled sulphur gave almost perfect results, and the owner was able to market several hundred baskets where he marketed little or none the year before. The demonstration has had the attention of a number of grape growers in that vicinity and they are greatly encouraged and pleased with the results.

In the White Salmon and Goldendale districts an unprecedented amount of mildew developed in grapes the season of 1915. The grape growers there maintain that it is the first season they have been troubled with grape mildew, and injury amounting to half of the crop in some vineyards has greatly discouraged those growers. Our inspectors have urged the adoption of mildew control sprays by these people and have given them the benefits of the demonstrations carried on at Kennewick.

Aphis Sprays. A year ago in the vicinity of Wenatchee, the inspector carried on a series of orchard sprayings to determine a spray material for aphis that was both effective and cheap. After trying out a number of materials he decided that tobacco sprays were most effective, but used alone were expensive. He used a number of materials in combination with Black Leaf 40, and found that weak solu-

tions of Black Leaf 40 were greatly increased in effectiveness by the addition of lime. Black Leaf 40 in combination with lime has been used by a number of growers in Wenatchee, Grandview and Walla Walla districts with very satisfactory results.

It has been noticed for some time that aphis and ants were largely responsible for the dissemination of a large proportion of the summer spread of blight. This cheaper spray material, which is very effective for aphis, will be of much assistance in blight control work, if conscientiously used to control the insects largely responsible for the dissemination of this disease.

In the work with summer sprays the object was to obtain combination of efficiency and cheapness. Although in the test the following dilutions gave results, they are of much greater dilutions than generally used:

Formulae for 200 Galion Tank.

	C	ost
Black Leaf 40, 1 Pt. (1-1600), liquid whale oil soap, 6 qts	.\$1	95
Black Leaf 40, 4-5 Pt. (1-2000), liquid whale oil soap, 6 qts	. 1	68
Black Leaf 40, 11/2 Pt. (1-1200) arsenate of lead, 6 lbs	. 2	30
Black Leaf 40, 1 Pt. (1-1600), arsenate of lead, 6 lbs	. 1	86
Black Leaf 40, 4-5 Pt. (1-2000), arsenate of lead, 6 lbs	. 1	59
Black Leaf 40, 1 Pt. (1-1600), lime, 4 lbs	. 1	43
Black Leaf 40, 11/2 Pt. (1-1200), lime, 4 lbs	. 1	88
Black Leaf 40, 4-5 Pt. (1-2000), lime, 4 lbs	. 1	16
Black Leaf 40, 3-5 Pt. (1-1000), miscible oil No. 1, 4 gals	. 3	16

In applying these sprays a pressure of 200 pounds and greater was maintained throughout and the work done as thoroughly as possible. Quassia chips and whale oil soap, the old and recognized aphis spray, gave the least satisfactory results. Quassia chips and whale oil soap:

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      Twenty pounds chips.
      $1 70

      Ten pounds soap.
      85 $2 55
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Temporary results were obtained from Black Leaf 40 in all the accompanying combinations, but only the stronger solutions are being recommended. The materials in combination were first tried out in a commercial scale by our Wenatchee inspector, but have since been used in various proportions experimentally and commercially by our inspectors at Walla Walla, Prosser and North Yakima.

Blister Mite. Blister Mite caused considerable injury to fruit, particularly in the Zillah district during the seasons 1913 and 1914, and was serious in unsprayed orchards during the season of 1915.

The local inspector checked a number of orchards in that locality for the effectiveness of blister mite sprays. After a thorough canvass of a number of orchards sprayed with different materials, it was found that lime sulphur applied just before the buds burst to be very effective for this pest. Trees sprayed after the buds had burst showed no less mite injury than unsprayed trees. The Colonel Walker place near Zillah is one of the orchards which is practically free from blister mite, and the results were brought about by one good spraying of

limesulphur just before the buds burst. In 1914 this orchard had extensive blister mite injury.

Codling Moth Survey. On September 20, 1915, a codling moth survey of the districts of Wenatchee, Yakima, Kennewick, Walla Walla, Kettle Falls, Spokane, Clarkston and White Salmon was begun, to get in writing as near as possible the detailed operations of a large number of farmers as to their methods of codling moth control. It took a great deal of work and diplomacy on the part of the field inspectors to get these records, and a good many days and evenings too were spent in the office in Olympia studying and compiling this information.

The season of 1915 was an unprecedented one for codling moth injury. A great many farmers insist that the poor results in their arsenate spraying were due to inferior lead arsenates. Some growers have backed up this contention by arguing that before the present European war the source of the arsenic supply was in Germany, and that during the past year and a half manufacturers have had to use a less reliable grade of arsenic. Whether or not there is any foundation in this contention I am unable to say. After talking the situation over with Dr. Cardiff, as members of the Insecticide and Fungicide Board, we authorized Mr. Clawson of Wenatchee and Mr. De Sellem of North Yakima to purchase samples of twelve of the commonly used brands, buying them in the original sealed package, and send them to the chemist for analysis. Personally I am of the opinion that the methods of application and the time of doing it have been more important factors than the chance of poor leads, as chemical analysis did not disclose that any particular lead was responsible for the poor results

In making these summaries figures have been taken from surveys from all parts of the districts and it seems should represent fair averages. Not all of the orchards surveyed have been used in the general compilation, some being discarded on account of their location being between uncared for orchards, or in isolated districts where infestation is not bad when no sprays are applied, or the orchard was young. The object was to get a fair summary which would show the average conditions where codling moth exists. The compilation of these surveys has been made usually by localities as the blanks were received, and in the case of the Yakima valley three summaries have been made, one for the valley in general, one for the lower valley, and one for the upper valley.

In most localities our inspectors placed codling moth breeding cages in order to observe the condition of the moths and determine spray dates. In this survey these spray rates are accepted as correct.

Fourteen orchards in the Grandview and Zillah districts having 455 acres of apples in bearing were tabulated. Of this number eleven sprayed before the calyx closed with power outfits and pressure ranging from one hundred and eighty pounds to two hundred and fifty pounds. Three were late in applying the calyx spray. Thirteen used the Bor-

deaux type of nozzle for the calyx spray. One used the vermorel throughout the season.

That the calyx spray was quite effective is shown by the calyx infestation at picking time, which averaged less than 1.34 per cent. There were but three growers who repeated the calyx spray within ten days.

In spraying for the first brood of worms seven were late in making the application, four were right, one early and two did not spray. For the second brood, eight were wrong, four were right and two did not spray. Three sprayed in August. The amount of lead averaged about two pounds per fifty gallons of water, and ranged from one pound to three pounds. At picking time the average per cent for these fourteen orchards was 1.34 per cent calyx wormy, and 27.6 per cent side worms. Of these fourteen orchards five were clean cultivated, nine had cover crops of either alfalfa or clover. In eight of these orchards the spray for the first brood of worms was delayed until the crop of alfalfa could be cut and taken out of the way. One of the nine farmers did not allow the cover crop to delay spraying for the first brood. This average per cent of infestation of side worms is 16.8 per cent, and the average for the eight who delayed this spray is 31.1 per cent. The number of moth sprays during the season averaged 3.5 applications. Six and seven-tenths (6.7) gallons per tree was the average for the fourteen orchards at each application.

At Wenatchee the inspector made a survey of thirty-three orchards with an acreage of 437½ acres. Of this number thirty sprayed before the calyx closed, using power outfits with pressure ranging from 175 to 150 pounds. There were three growers who repeated the calyx spray in ten days. For the thirty-three orchards the percentage of calyx worms at harvesting time was 2.2 per cent. Three of these growers did not spray for the first brood of worms, twenty were right and ten wrong in the date of application.

For the second brood ten did not spray, seventeen were right and six wrong in the date of application. Seven sprayed during the first half of August. Mildew sprays were quite generally used during the season in combination with lead arsenate. Two farmers used atomic sulphur, one used Black Leaf 40, seventeen used iron sulphide, and nine used no materials in combination with lead.

Of these orchards twenty-nine were sprayed throughout the season with Bordeaux nozzles, eight were calyx sprayed with Bordeaux nozzles, and cone nozzles were used in later sprays. Four used vermorel nozzles for all sprays. Six brands of lead were used at the average strength of 2.1 pounds per fifty gallons of water.

At picking time the average percentage for these thirty-three orchards was calyx wormy 2.2 per cent, and 22.8 per cent side worms. Of these orchards seventeen were clean cultivated, and sixteen had cover crops. In seven of these orchards the spraying for first brood of worms was delayed until the crop of alfalfa could be cut and taken

out of the way. Nine of these farmers did not allow the cover crop to interfere with the time of spraying for first brood of worms. The number of moth sprays during the season averaged 2.9 applications per orchard. Five and four-tenths (5.4) gallons per tree per application was the average for the thirty-three orchards.

In making the following summaries, figures were taken from seventy-nine orchards in all parts of Yakima county, from the Selah and Naches to Grandview. Some orchards on which records had been taken were not used in the summaries for obvious reasons. One or two were discarded because, on account of their location, surrounded as they were by uncared for orchards, they could with the utmost difficulty be kept clean, even with the most efficient sprayings. Some of the orchards in the upper Selah valley and on Tieton ridge were discarded because they were young orchards surrounded either by other young orchards or isolated so that even with no spraying they could not be as bad as some other orchards in less favorable locations would be with several sprays. The object was to get a fair summary which would show the average conditions where codling moth exists. From my own observations as well as from the figures obtained, I am positive that the chief reason for the unsuccessful work of the growers of the Yakima valley is, first, lack of thoroughness in spraying, and, second, failure to spray at the right time.

Calyx Spray.

Used Used	at t	he lat	ri e.	gh	t 	ti •	n		•				•			•	•			• •	 		•	• •	. 7	2
						L	.a	ıtı	er	9	a	r	a	v	8.											

Per cent of Calyx worms where calyx spray was used at right time, 6-10 of 1 per cent.

Per cent of Calyx worms where calyx spray was not used at right time, 3 per cent.

Per cent of worms where later sprays were used at right time, 5.1 per cent.

Per cent of worms where later sprays were used at wrong time, 20.3 per cent.

Per cent of Calyx worms where pressure was up to standard in calyx spray, .7 per cent.

Per cent of Calyx worms where pressure was too low in calyx spray, 1.4 per cent.

In these records the percentage of calyx worms is very low, but doubtless would have been considerably larger if there had been any way of computing the number of calyx worms in the apples which dropped and those that were taken off in the course of thinning.

inspectors' Weekly Reports. This office has kept in touch with the work of the inspectors in the field, and the weekly reports which

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show the work done each day of the week have made it comparatively easy. When the face of the report sheet is insufficient the inspectors have been instructed to use the back of the sheet freely for reporting details and making explanations. These reports are contained in drawer file marked "Weekly Reports" and are available for the inspection of the Advisory Board at any time.

INSPECTION OF FRUITS AND VEGETABLES.

The inspection of fruits and vegetables is regular routine work of the inspectors, particularly those covering distributing points, and the work has been carefully done. Our inspectors at ports of entry where fruits from other states and foreign countries are received, are particularly active and careful in their inspections of all imported fruits to intercept and guard our industry against the importation of pests and diseases.

A great many shipments of Washington grown fruits have been repacked under our supervision, and a number of lots condemned and destroyed for infection. These figures can be compiled from our report files, but are not included here on account of limited amount of space allotted this division.

INSPECTION AT THE PORT OF SEATTLE.

The quarantine work of the Horticultural Inspector stationed at Seattle is becoming the most important part of his duties, and new rules and regulations are being issued by the Federal Horticultural Board almost weekly covering the inspection of imported agricultural and horticultural plants and products.

A special individual permit must be secured from Washington, D. C., before one can import from any country outside the United States, nursery stock, cotton or potatoes, and then upon arrival at port of entry, Seattle, shipments must be inspected and results given in writing submitting copies to the Customs Department at Seattle, Department of Agriculture at Olympia and the Federal Horticultural Board, Washington, D. C.

Foreign quarantines now existing prohibit from certain countries the importation of Indian corn or maize, pine trees, currant and gooseberry plants, all citrus nursery stock, cotton, cotton seed and hulls, potatoes, oranges, limes, grape-fruit, mangoes, peaches, avocadoes, plums, sugar cane, etc.

These quarantines were established to prevent the introduction into this country of the Downy Mildews and Physoderma diseases of Indian corn, white pine blister rust and European Pine Shoot Moth in the case of pine trees; white pine blister rust on currant and gooseberry plants; citrus canker, etc., on citrus nursery stock; pink bollworm, etc., in cotton, cotton seed and hulls; potato wart, powdery scab, etc., on potatoes; avocado weevil in avocadoes; Mediterranean

and Mexican fruit flies in deciduous and citrus fruits and some vegetables.

The following pests were intercepted at Seattle the past year: From Japan—Parlatoria Pergandei (chaff scale) on maples; Aulacaspis Pentagona (West Indan peach scale) on cherries;

Eighty boxes Japanese pears found to very badly infested with an unknown larva. Mr. E. R. Sasseer of Washington, D. C., states this larva, as yet unknown and not the Codling Moth, but very destructive;

Wistarias infected with a scale insect which California authorities were unable to identify, but said it was the largest scale ever seen.

Three or four large shipments of Manchurian corn or maize have come to Seattle the past year and were found to be badly infested with the Rice Weevil (Calandria Oryzae.) Now that the corn or maize is prohibited entry we do not expect to see any more of it.

We have also received several shipments of cotton, cotton waste and cotton thread from China. In the case of raw or unmanufactured cotton entering this port the same must be sent to Oakland, California, for fumigation, where the only cotton fumigation plant on the Pacific Coast exists. Certain grades of cotton waste and cotton thread are allowed entry here free from fumigation. These measures are for the purpose of preventing the introduction of the Pink Bollworm and other injurious insects.

From California we condemned five cars potatoes, eighty sacks and twenty seven boxes on account of potato tuber moth infection; also Cotoneaster and unknown plants which were infected with Aspidiotus Camellia (Greedy Scale) and Sassetia Olea (Black Scale.)

At two Seattle nurseries the inspector found potted lemon plants infected with Parlatoria Pergandei (Chaff Scale), and Junipers with Juniper Scale (Diaspia Caruelli.)

Early in January, 1916, the Federal Horticultural Board revised its ruling on potatoes from Canada where up to that time a quarantine on account of Powdery Scab had prevented the importation of potatoes except that during 1915, sixty-two cars were imported by special permit. From January 1st to June 30th, 1916, permits were issued by the Federal Horticultural Board to cover the importation of 576 cars of Canadian potatoes. Of this number however, only eleven cars were actually shipped into the state from Canada, but we now have on hand permits for two thousand tons to be brought here from Canada after September 1st. During May, June and July, of season 1916, there were 260 cars potatoes shipped to Seattle from California by rail and boat.

THE INSPECTION OF IMPORTED POTATOES.

During April, May, June and July of the season 1916, the Seattle market received 343 cars of potatoes from outside the state as follows: 196 cars from California, 62 cars from British Columbia, 45

from Minnesota, 11 from Montana, 11 from North Dakota, 6 from Idaho, 5 from Michigan, 4 from Wisconsin, 2 from Illinois, and one from Florida.

The fear that the potato tuber moth might be introduced into the potato fields of the state has been our reason for careful inspection of all potatoes from California. The strict inspection of these shipments has naturally meant quite a little inconvenience and expense to the shippers at both ends of the line, and occasionally has meant that a few cars rejected by the inspector here had to be returned to California in which case the round trip haul practically consumed the value of the car. It was for this reason that during May, 1916, the Seattle commission men and potato brokers took up a collection among themselves of \$200.00 to pay the expense of inspector F. N. Rhodes to Los Angeles and Stockton in order that the potato shipments for this state might be inspected at shipping point rather than at destination. Mr. Rhodes went first to Los Angeles where the first shipments come from and later went to Stockton from where the largest amount of California potatoes are shipped to Washington points.

The method of procedure in inspecting these shipments was thorough, and where the inspector was unable to find one infected potato in the car he would then issue a certificate giving the car number, origin, number of sacks, consignee and destination, and stating "Apparently free from tuber moth." One copy of this certificate was given the shipper, one was sent to the Chief of the Horticultural Division, Olympia, Wash., and one to the inspector into whose district the shipment was made. All the shippers wanted the inspection and certificate, and in no case did they ship any of the rejected cars into Washington.

Mr. Rhodes passed 131 car loads which were shipped to Washington points as follows: 111 to Seattle, 14 to Tacoma, 4 to Spokane, 1 to Aberdeen and 1 to Everett. He rejected fifteen cars at the shipping point. The local inspector at Seattle on duty during Mr. Rhodes absence condemned five cars which however were not inspected in California. On account of the arrival of home grown early potatoes on the market in quantity around August first, this date approximately marks the close of the shipping season for this product from California points.

THE COLORADO POTATO BEETLE.

Early in the month of July, 1916, Mr. W. S. McClain, of Sunnyside, Washington, discovered the presence of a few specimens of the old fashioned Colorado Potato Beetle, and notified Mr. F. E. DeSellem, inspector-at-large for that district, of this discovery. Immediately a survey was begun to determine the extent and distribution of the pest.

In addition to Mr. DeSellem and the chief of the Horticultural Division, four inspectors each having the use of a Ford, were assigned certain areas for close inspection. Sunnyside business men as well as farmers took a keen interest in the work and urgently recommended that the pest be exterminated if possible before further spread of the insects might make such action impracticable.

The result of the survey showed that fourteen patches were infested to a greater or less degree. It was then urged upon the growers that arsenical spraying be thoroughly applied so as to kill as many of the feeding larvae as possible and these sprayings were quite thoroughly done. On account of the season of the year at the time this discovery was made, it was impossible to find pupae that had crawled from the vines into the ground for pupation and some adults were daily appearing. Quite a number of egg clusters were found indicating that the further spread of the pest was taking place rapidly.

With the information that the pest was distributed over fourteen patches, and that absolute thoroughness in carrying out the methods of eradication was vitally essential to get results, it was decided during the forenoon of July 8th, to call a meeting of the interested potato growers for that evening. The president of one of the Sunnyside banks assisted in the calling of the meeting by prevailing upon the telephone company to ring a general call at noon. The meeting was held that evening at the farm home of Mr. Earl Harris, a wide awake potato grower of the district. The meeting brought out certain facts bearing on the future of potato growing in the Yakima Valley. With approximately 5,000 acres producing annually about 3,000 cars of this crop in the Yakima Valley, it took only a few minutes discussion to convince all present that to allow an unrestricted spread of the pest throughout the valley would mean an annual cost of \$15,000 to \$18,000 in control measures or greater loss if allowed to feed unmolested on the crops. It is another example of community interest in the control of pests and diseases and in this, as well as in the pear blight control work, the Sunnyside farmers have proved themselves to be able to see the need for community action in the control of these serious pests so likely to affect the value of the crops of the district.

It was this spirit of healthy cooperation and the desire to exterminate, if possible, the Colorado Potato Beetle from the Yakima Valley that made the vote unanimous for the organization of the Sunnyside Potato Protective Association. Mr. W. O. Crow was elected president and Earl Harris, secretary. The association has already accomplished much good for that locality and with the aid of our inspectors it is planned to later take up the study of educational phases of potato growing such as the selection and growing of seed potatoes, irrigation practices, harvesting, grading, etc., that go to make potato growing more profitable.

Following out the desire of the growers in so far as it is possible, an attempt towards the extermination of the pest has been carried out. Spraying of the infested patches was the first step taken in order to kill many of the larvae and the new larvae from egg clusters later as they are hatched. To supplement the spraying, the fourteen patches were carefully gone over and hand picked to destroy the adults as well as any larvae visible.

It must be admitted that the complete eradication of the pest after having a foot hold in fourteen patches could hardly be expected, however, if the work being done really accomplishes that, it will be a saving to the Yakima potato growers of thousands of dollars. On the other hand, if there happens to be a few beetles escape this season, certainly vigorous action early next season should be successful in practically cleaning up this pest which has already proved to be a ravenous feeder on potato plants in the Sunnyside district. The results of hand picking the beetles daily for four weeks is shown herewith and is quite encouraging in that the daily catch ranged from 358 beetles the first day to one adult the last day. The figures indicate that the result of the work done so far has been very successful in that it so nearly approaches our desire to see the pest eradicated in this district.

CATCH OF COLORADO POTATO BEETLES, SUNNYSIDE, WASH.

NAME	Monday	Tuesday	Wednes- day	Thurs- day	Friday	Satur- day
John Eubanks		88	88	85	79	85
Earl Harris		8			12	9
S. F. Smith	19	7	ŝ	8	42	5
S. Kostenbader				8	2	10
Paul Sapp		2			3	2
P. J. Lichty	1	<i></i>				
Ed. Brockway		2	1	1	2	7
A. O. Rader		16	7	7	19	23
H. D. 8mith		1	8	8		5
J. H. Benning		4	3	8	8	4
G. H. Mowen		10	1	1	1	1
M. Padelford						
Clyde Atkinson	2		2	•••••	1	
Totals	358	137	122	117	164	151

FOR WEEK ENDING JULY 22ND.

Catch of Colorado Potato Beetles-Concluded.

FOR WEEK ENDING JULY 29TH.

name	Monday	Tuesday	Wednes- day	Thurs- day	Friday	Satur- day
J. Eubanks		50	30	19	8	10
Rari Harris		21	7	10		1
S. P. Smith	27	8	18	12	10	27
S. Kostenbader		ŝ	9	8	5	5
Paul Sapp	12	4	4	1 2	3	
Ed. Brockway	16	8	4			2
A. O. Bader	77	61	28	16	9	l
H. D. 8mith	7		1			
J. H. Benning	2					
G. H. Mowen	2	1				
Clyde Atkinson			. 2			
Totals	284	155	98	68	30	45

FOR PERIOD ENDING AUGUST 5TH.

NAME	Monday	Tuesday	Wednes- day	Thurs- day	Friday	Satur- day
John Eubank Earl Harris			1		. 2	
W. O. Crow						
S. F. Smith						
Ed. Brockway A. O. Rader.	7			1		
H. Mowen H. D. Smith	2					
I. H. Benning	1	'			1	
Tyde Atkinson						
Totals	22	17	12	5	3	8

FOR PERIOD ENDING AUGUST 12TH.

NAME	Monday	Tuesday	Wednes- day	Thurs- day	Friday	Satur- day
John Eubank Earl Harris						
S. F. Smith W. O. Crow.	5	1				1
Paul Sann	1					
P. J. Lichty Ed. Brockway						
A. O. Rader H. D. Smith J. H. Benning	1		1			
G. H. Mowen						
Clyde Atkinson Totals						

INSECTICIDES AND FUNGICIDES.

Section 6 of the Horticultural law makes provision for a state insecticide and fungicide board, and it was made the duty of this board to analyze and report upon any horticultural insecticides and fungicides. The board now consists of Dr. Ira D. Cardiff, director of the experiment station; Dr. F. D. Heald, plant pathologist; Prof. Geo. A. Olson, state chemist; Dr. A. L. Melander, entomologist, secretary; T. O. Morrison, chairman.

Forty-seven samples of spray material were sent to the state chemist by members of the horticultural division. These were analyzed by Prof. Olson and the results of his analysis circularized among the horticultural inspectors who in turn gave out the information to interested growers.

Manufacturers of spray materials are generally trying to comply with the law in their offering for sale in the State of Washington any of their horticultural insecticides or fungicides. The fact that any of these materials, if adulterated or misbranded within the meaning of the law, are very likely to be found by state or federal officials has stimulated manufacturers to exercise care in this connection.

CONFERENCE OF HORTICULTURAL INSPECTORS.

A conference of the inspectors at large for the horticultural division was held at the State College April 10, 11 and 12. The object in holding the conference was for the purpose of getting better acquainted with the faculty members of the experiment station and to meet with them in their laboratories for discussion of pests and diseases injurious to horticulture. We are especially indebted to the professors for giving us almost their entire time during the three days conference and for the scientific assistance given to aid us in our field work.

The program for the conference was outlined and special problems were taken up in their order under the following general subjects:

Regulatory work.

Miscellaneous insects.

Ways in which our horticultural inspectors can cooperate with the experiment station men.

Sprays.

sprays.

Miscellaneous fungi.

Potato troubles:

(Insect pests).

(Fungous diseases.)

(Seed selection.)
Codling moth.

San Jose scale.

Juse scale.

GRADE AND PACK CONFERENCES.

Section 17 of the Horticultural Laws authorizes a public hearing annually with horticulturists in order that a full and impartial opportunity may be given all interested districts to be heard in the estab-

lishing of grading rules for apples for the ensuing year. Sections 16 and 17 are closely related in that they provide for a "Washington Standard Pack" for apples; provide for the defining and adoption of the grade requirements, and specify what constitutes proper branding of closed packages of the same.

In April, 1915, after the passage of the new horticultural law, the Assistant Commissioner in charge of the horticultural division met in conference with growers and shippers in Spokane at a regular meeting of the Growers' Council. As a result of the conference rules and regulations were adopted by the Assistant Commissioner and Acting Commissioner of Agriculture under authority of Section 17.

In order to adopt grading rules for the season of 1916 a conference was held in Spokane December 20, 1915. The following will show the nature of the announcement and the general rules governing the conference:

"The Commissioner of Agriculture is authorized and directed by Section 17 of the Horticultural Law to, in the month of December of each year, make, adopt, issue and publish general rules and regulations governing the grade and pack of apples, and establish and define grades for the ensuing calendar year. The Commissioner is authorized by law to advise and consult with fruit growers and officers of fruit growers' associations, and to provide for public hearing or convention so as to insure an impartial opportunity for all interested districts to be represented.

The "Washington Standard Pack" grading rules for apples adopted under authority of the horticultural law, were adopted in Spokane April 28, 1915, at a meeting of the Northwest Growers' Council.

The 20th of December, 1915, has been selected as the date for the next general meeting of apple growers and shippers to decide on rules for the season of 1916, and it is sincerely hoped that the wishes of the majority of the fruit growers may be had with reference to amendments to the rules now in effect. In order to get the wishes of the fruit growers themselves and thus have public sentiment back of the grading rules, we are asking that local or district meetings be held in advance of the final conference, and that these districts be represented at the final conference. The law specifies that representations shall be on a tonnage basis. As the figures for the 1915 apple shipments are incomplete at this date we are assuming that the 1914 apple shipments taken as a basis will be a fair basis of representation for all districts.

The following is the apportionment we are making as a basis of representation:

Chelan, Okanogan, Douglas and Grant63	votes
Kittitas 1	vote
Yakima	
Benton and Franklin counties 2	
Spokane 5	votes
Columbia, Garfield and Walla Walla	votes
Stevens and Lincoln	
Skamania county 1	vote
Klickitat county 1	vote
Whitman county1	vote

The Plan of Procedure.

 Local or district meetings.
 Election of chairman and secretary of meeting.
 Designation of boundaries of district.
 Approximate number of cars of apples represented by the district taking the 1914 crop as a absis.

5. Proposed amendments.

- 6. Adopted amendments to be submitted in writing.7. Amendments to be signed by chairman and secretary of meeting and presented to the grading conference on December 20th, by delegates selected at the local meeting.
- We ask that in the consideration of amendments to the apple grading rules that local or district meetings be open to all interested apple growers whether or not they be members of the organization, association or community organization by or through which the meeting has been called. I am asking that our inspectors-at-large superintend these meetings by naming the date, place, and checking up the amendments offered in order that there may be no confusion as to the delegates that will be acceptable at the Spokane meeting.
- 2. In calling the meeting together, in our opinion there should be a chairman and secretary elected.
- The boundaries of the district represented by the meeting should be defined at least by names of localities within the district in order that representation within the districts may be as nearly in proportion to the apple tonnage as possible.
- 4. That the meeting vote to adopt or reject any amendments offered.
- That the adopted amendments be in writing and attached to a copy of the printed grading rules so that there may be no mistake as to the meaning of the amendments.
- 6. In submitting amendments for consideration at the central meeting December 20th, proposed amendments should be submitted in writing by a delegate or delegates selected at the local meeting or, if it is the desire of the meeting, the written amendments may be submitted by registered mail.
- 7. We ask that the secretary and chairman sign the amendments that are offered by their district and make statement showing the number of growers present at the local or district meeting.

On account of limited amount of space allotted this division the apple grading rules as adopted for the seasons of 1915 and 1916 are necessarily omitted from this report.

NURSERIES AND NURSERY STOCK.

Of the number of nurseries licensed for the period July 1st, 1915. to July 1, 1916, sixty-one failed to renew their licenses. Eighty-eight nursery licenses are in effect for the period July 1st, 1916, to July 1st, 1917.

Nurseries have been inspected whenever possible during the growing season to locate any infection that may have been present on the stock above the ground line. In so far as is practical, the final inspection is done at "digging time" when it is most convenient to examine for root diseases, and if it is not done then the inspecton is done at pont of destination.

The inspection of the nurseries and nursery shipments in this state is no small task when carefully done, but does not, however, occupy as much time as some of the less important details of our work. The inspection of nursery stock from foreign countries is done by this division under the general supervision of the Federal Horticultural Poard.

This report includes in tabulated form the nursery deliveries and foreign nursery stock imported and inspected by this division.

FRUIT CROP ESTIMATES.

During the past four seasons this division has issued from two to four fruit crop reports during the growing season and there has been considerable interest shown in reports of this kind. During the present season (1916) we have issued two reports, the first July 3rd, and the second September 1st, in co-operation with the Fruit Growers Agency.

The Fruit Growers Agency has been receiving the active support of the office of markets and rural organization of the U. S. Department of Agriculture and in the compilation of the fruit crop estimates we have tried to furnish some assistance to this marketing plan. The reports have been mimeographed in each case and copies mailed to growers and shippers on our mailing lists and to a great many parties outside the state at their request. In making the estimates and collecting the data the inspectors at large were instructed to look over their horticultural districts preparatory to making their estimates and to call on shippers and shippers' organizations accustomed to making crop estimates in order that this final estimate might represent a fair average. In this connection I must say that our inspectors in the commercial apple districts by their practical handling of this matter and other details of their work have my personal admiration and I am sure that of many of their growers.

I believe that our crop estimate in being used as an invoice of the commercial apple crop of the state will be of considerable value to the different marketing agencies.

THE LAW OF COMMISSION MERCHANTS.

Our attempt to enforce the law of commission merchants was discontinued early in the season 1916 at the time the law was declared by the Supreme Court to be null and void.

That the law as drawn is hardly practical for present conditions can be readily seen by considering the following important points:

1. Definition of commission merchant is faulty in that fifty-one per cent of a firm's business must be on a commission basis to come

within the definition of commission merchant. No provision is made for cooperative organizations, and yet as the law is drawn these organizations come within the meaning of commission merchant.

- 2. Requiring payment within ten days for certain firms in special markets and under favorable conditions would be possible but would be practically impossible for large shippers and organizations to comply with without being able to take into consideration the distance to market, and whether or not the shipment consisted of all or a portion of a variety pool.
- 3. A special appropriation would be necessary to carry out the provisions of such a law. So far we have had no appropriation for this purpose.

It may be of some interest in this connection that the following opinions concerning the law of commission merchants were written by the State Supreme Court.

	Was	hin	ton	Dec	cision	8.
Ferguson-Hendrix Co. v. Fidelity & Deposit Co	. Vol.	37,	No.	7, 1	Page	392
State v. Bowen & Co	. Vol.	44,	No.	1, 1	Page	10
State v. J. B. Powles & Co	. Vol.	47.	No.	9.		

Since the law of commission merchants has been declared null and void it would hardly be necessary to give this explanation were it not for the fact that we often hear of some one advocating a law of commission merchants. We know of a number of instances where a good workable law could have been the means of bringing an untrustworthy commission merchant to do that which the dependable commission merchant would do.

To any legislators who contemplate proposing legislation for the regulation of this class of trade I would urge that it first be submitted to the Office of Markets and Rural Organizations of the U. S. Department of Agriculture, Washington, D. C.

The following are some of the prosecutions brought under the Horticultural Law:

NAME AND ADDRESS OF PARTY PROSECUTED	Basis of Complaint	Verdict	Court	Date of Verdict
J. M. McKinney, Walla Walla, Wash	O. M. McKinney, Walla Walla, Wash Offering for sale infected fruit \$25 and costs	\$25 and costs	Justice	7-19-15
Ilmer Rector, Freewater, Oregon	Elmer Rector, Freewater, Oregon Importing and selling infected fruit	\$25 and costs	Justice.	7-17-15
f. T. Walker, Freewater, Oregon	J. T. Walker, Freewater, Oregon Importing and selling infected fruit	\$25 and costs		9-27-15
John Pulliam, Dayton, Wash	Selling infected fruit	\$25 and costs	Justice	9-10-15
B. Frank Smith, Pomeroy, Wash	Selling infected fruit	Prosecution dropped by county	(waitsburg)	
F. L. Phelps, Freewater, Oregon	Importing and selling infected fruit Importing and selling infected fruit	Not apprehended Not apprehended Not apprehended		
D. Riggle, Freewater, Oregon	Importing and selling infected			
O. E. Melby, Madison. Park Floral Co., Scattle.	Conducting nursery business without first obtaining a license.	the and costs	Justice Judge Orinker's Court	4-25-16
W. D. Miller, Kettle Falls	Interfering with a horticultural inspector	Gullty	Superior Nov. 1915	Nov. 1915
Pacific Fruit & Produce Co., No. Yakima. Carried over to	in the discharge of his duty. Shipping infected fruit.	\$100 and costs, totaling \$127.75		•
J. M. Perry & Co	Shipping infected fruit	Guilty (\$65.06)	Justice	Hearing 11-30-15
Ir. Jas. Day	Mr. Jas. Day	Guilty (\$66.30)	Justice	(unuer au- ylsement) Judgment 12-14-15 Hearing 6-10-15 Judgment 6-21-15

ORCHARD ACREAGE OF WASHINGTON.

There have been many inquiries coming to this office in regard to the fruit acreage of the different districts of the state, and as it is of particular interest to those engaged in the marketing of the fruit crop we are including herewith data covering this matter in a general way. The data for North Central Washington was collected by the league-state inspectors and compiled by the Wenatchee North Central Washington Growers' League.

Only the totals are here shown from this report. The figures for the remaining districts of the state were revised by the inspectors at large for their respective districts.

In considering the fruit tree acreage of the state it will probably be of most value to shippers and shippers' organizations to have this data for the commercial districts grouped separately from that of the counties having quite a large number of fruit trees, but which are either planted as home orchards or are so isolated in small lots as to be of very little importance commercially.

GENERAL.

In writing this general report of the work of the horticultural division the assistant commissioner of agriculture, in charge of this division, deeply regrets that lack of space prevents the printing of the very excellent reports of the ten inspectors-at-large. The report of each inspector and the work he has done in his respective district since the issuance of our last report speaks for itself the true character of his work and the services he has performed. As head of this division it is with a great deal of pride and satisfaction that I have attempted to explain the lines of work and the results we have accomplished together. The conscientious endeavor on the part of the field inspectors to make their efforts of real service to the fruit and vegetable growers has been a great source of satisfaction to me. I am glad indeed to acknowledge the valuable work of these men.

Among some of the things that would have been of great value in this report are several field problems that men of this division have been working on. Mr. Luke Powell, inspector-at-large, Prosser, Washington, carried out a series of demonstrations for the control of grape and apple mildew, tests in pollination of cherries, and tests in pear stocks more or less resistent to blight.

- Mr. O. T. Clawson, inspector-at-large, Wenatchee, Washington, has made a survey of cover crop conditions in more than fourteen hundred orchards of North Central Washington. He has some valuable data on the subject of alfalfa in the orchard which would make an excellent bulletin. Mr. Clawson and his assistant, Mr. A. L. King, have recorded some interesting data concerning the life history of the codling moth.
- Mr. F. E. De Sellem, inspector-at-large, North Yakima, has carefully carried out some potato demonstrations with reference to disease and the growing of seed potatoes which would make material for a

useful bulletin. Mr. De Sellem has also a codling moth demonstration tract of eighteen acres divided into fifty-two plots that will bring out some very interesting comparisons of materials used and in the number of applications. Blue prints have been made of this demonstration and all details are being carefully recorded.

Mr. C. W. Gilbreath, inspector-at-large, Walla Walla, carried out successful demonstrations in the control of apple mildew and its effect on the setting of fruit buds. He has also made some interesting observations and notes on thinning and on the use of insecticides for the control of San Jose Scale. Mr. H. W. Samson, inspector-at-large, Spokane, Wash., has data on certain phases of Bacillus amyllovorus and apple scab that would also make interesting reading.

There are yet other lines of work in which the inspectors of this division have been interested in and in many instances have worked long after the regular day's work was done in order to complete the task before them.

We are sure that the horticultural division has given the best service that was within us and we have conscientiously tried to be of assistance to the horticultural industry of the state.

Respectfully submitted,

T. O. Morrison,

Assistant Commissioner of Agriculture, In Charge, Division of Horticulture.

BEARING FRUIT TREES.

COUNTIES	Apples	Pears	Peaches	Apricots	Plums and Prunes	Cherries
Chelan Douglas [*948,317	*44,709	*08,664	*20,366	*7,748	*20,694
Adams	6,000	2,300	1,500	300	600	1,500
Asotin	*16,000	*4,800	*33,000	*2,200	*7,500	*35,000
Benton	*456,060	*82,840	*51,420	*14,600	*14,900	*29,700
Clallam	82,000	1,000	· · · · · · · · · · · · · · · · · · ·		1,600	*1,500
Olarke	48,000	18,000	6,000		*590,780	4,000
Columbia	*44,000		*6,000			*5,000
Cowlitz	17,000	3,000			3,750	2,000
Ferry	*14,000	1,500			1,000	1,800
Franklin	*70,000	*8,000	*10,000	1,000	1,000	*1,000
Garfield	*4,000	*1,920	*15,000			
Island	36,000	1 000			0 200	
Jefferson	16,000	1,200	10 575		3,500	600
King	112,535	37,200 3,000	10,575		27,500	38,625
Kittitas	8,000 *128,000	3,000				4,000
Klickitat	425,680	*6,000	*18,000	*25,000	*1.500	*1.900
Lewis	46,000	0,000	10,000	20,000	8,200	11,500
Lincoln	*65,000	*16.800	*34.000		*6,000	*3,500
Mason	11.000	2,400	500	····	2,400	2,300
Pacific	4.000	2,500	,		150	2,000
Pend Oreille	*9,000				2,700	900
Pierce	64,651	18,299	1		2,700	*14,165
San Juan	42,000	*5,400			6.800	2,400
Skagit	48,000	11.500			6.500	7.500
Skamania	*72,000	11,000	1,000		*9,500	*1,500
Spohomish	68,000	12,000			5.500	9,000
Spokane	1,066,700					1
Stevens	*190,000	*15.000	*12.000		*11.700	*6,500
Thurston	46,000	9,000	600		34,000	8,600
Wahkiakum	4,850	8,700	2,700		5.500	1,250
Walla Walla	*184,000		*4,800		*25,000	
Whatcom	29,600	3,700	J		5,600	*8,300
Whitman	*149,000	*8,100	*88,000	*5,700	*31,000	*9,800
Yakima	*1,198,000	*151,008	*234,480		*34,750	*6,750
	l					
Totals	5,608,593	397,320	593,289	69,166	821,078	241,284

^{*} Grown in commercial quantities.

FRUIT TREES FIVE YEARS AND YOUNGER.

COUNTIES	Apples	Pears	Peaches	Apricots	Plums and Prunes	Cherries
Chelan Douglas Okanogan Grant	-,,	*83,814	*89,718	*20,335	*3,849	*7,309
Adams		2,400				
Benton						
Clallam	1,000	1,000			200	*250
Clarke		2,000	1,000		*181,500	1,000
Columbia	*85,000					*7,000
Cowlitz	4,000 *14,000	2,000			2,800	500
Pranklin	11,000			• • • • • • • • • • • • • • • • • • • •		
Sarfield		*2.880			*5,000	
sland	18,000					
efferson	2,000	300				700
King	29,500	24,500	8,000			22,000
littitas		8,000				
lickitat	*89,320	*1.700	*2.000	*5.800		
AWIS	8,000	2,,00	2,000			
iDeoin	*21,000	*1,320				
ason						
acific	3,400				··· <u>·</u> ···	
end Oreille lerce	*3,600 5,000	1.000	300		_,	*6,000
n Juan	8,000	1,600				
3.612	1 19 000	7.000				
amania	911 700		500		*4,000	500
	18,000	8,500		- <i></i>		600
	140,000	*8,000				
urston hkiakum	3,500 1,700	12,000	1,200		1.500	800
		1,200	1,200	l	12,500	1
) 11,000	4,200	1	l	1	*3,800
litman	46, 900	*1,100		*800	*1,750	*4,400
tima	1,197,520					ļ
		100 (1)	m ===	22 225	124 000	
Totals	3,952,585	170,414	52,718	26,985	174,298	59,059

^{*}Grown in commercial quantities.

WENATCHEE-NORTH CENTRAL WASHINGTON DISTRICT.

COMPRISING COUNTIES OF CHELAN, DOUGLAS, OKANOGAN AND GRANT.

DISTRICT AND ACREAGE	Age of Trees	Apples	Orab Apples	Quinces	Pears	Apricots	Plums	Oberries Peaches	Peaches
Wenatchee 4,630.47 acres	1.8 years 4-5 years 6-7 years 10 and older	44,408 55,169 62,421 48,390 90,031	744 298 191 107 298	8 9 9 13 146	6,620 8,672 2,854 8,146 4,889	1,923 1,756 3,187 2,801 2,075	750 868 1,308 867 2,188	187 298 1,611 2,467 5,794	235 976 4, 101 5,320 19,781
Olds Station	1-8 years 4-5 years 6-7 years 10 and older	10,848 20,170 23,582 9,588	£1248	21-10	1,608 543 1,184 751 1,131	25 107 107 124 135 14 13 135	51 ±451	67 112 102 10,01	1,585 1,585 1,984
Monitor 1,774,92 acres	1-8 years 4-5 years 6-7 years 10 and older	10,780 25,288 30,263 19,661 9,406	2 5188	4 61 80	2,554 1,300 1,858 720 440	88 58 E E	22222	80 817 817 156	6 5 1,833 350
Cashmere 3,490.42 acres	1-3 years 4-5 years 6-7 years 10 and older	24,210 67,685 70,892 48,206	52~4&4	11	4,979 3,076 3,985 2,647 1,390	432E8	15888 £	286 848 1,171,1	286 286 601 601 613
Dryden 1,890.08 acres	1-3 years 4-5 years 6-7 years 10 and older	29,679 29,486 17,697 13,287 7,988	28.68.1	ı	3,817 1,669 1,961 424 164	&53£48	44628	28,22	100 100 171 171 104
Peshastin 1,638.87 acres	1-8 years 6-7 years 8-9 years 10 and older	88,13,887 28,280 56,87,5 56,87,5 56,87,5	80-88	•	7,211 2,445 1,618 174 138	82522	82438	813 613 613 613 613 613 613 613 613 613 6	35 12 186 186 186 186

Wenatchee-North Central Washington District—Continued.

	COMPRING COUNTIES OF CHELAN, DOUGLAS, OKANOGAN AND GRANT	TES OF CHEL	AN, DOUG	LAN, OK.	ANOONA	AND ORA	Y.I.			
DISTRICT AND ACREAGE	OK.	Age of Trees	Apples	Crab Apples	Quinces	Pears	Apricota	Plume	Oherries	Peaches
Leavenworth	721.00 acres	1-3 years 4-5 years 8-9 years 10 and older	12,224 18,734 17,120 6,087 466	so 1-88	6 8	1,086 816 456 18 88	63 4	8.10 E	c1858	12884
Malaga	1,602.70 acres	1-3 years 6-7 years 8-9 years 10 and older	18,868 39,647 15,206 10,106 16,568	250 25	3-8-	4,358 2,258 2,063 1,629	\$6.50 58.0 58.0 58.0 58.0 58.0 58.0 58.0 5	80883	141 288 201 201 773	2,408 2,408 2,606 1,485
East Wenatchee	8,402.40 acres	1-8 years 4-5 years 6-7 years 8-9 years	36,778 106,833 60,652 8,063	82 % 6	≓ ₹	2,152 2,988 2,388 118	25,830 25,670 28,616 285	25.823.2	277 491 1,407 15	4,119 4,106 1,100
Entlat, Orondo and Wagnersburg	1,710.25 acres	1-3 years 6-7 years 8-9 years 10 and older	20, 506 37, 506 22,010 15,500 6,883	88°887;	9	2,226 1,762 1,080 1,772	448 151 288 888	14 16 243 85 5	28 8 5 8	1,854 2,109
Winesap	170.35 acres	1-3 years 6-7 years 8-9 years 10 and older	195 4,010 2,508 2,626	ıç.		1,045	8 28		200	675 87
Chelan, Chelan Falls and Lakeside	211.23 acres	1-8 years 4-5 years 6-7 years 8-9 years	52,221 36,246 31,641 13,608 13,799	r 8 8		3,302 111 876 14 124	98 45 88 e	886.5	22238	20 80 5 88 88 5 88

Wenatchee-North Central Washington District-Continued.

COMPRISING CO	COMPRISING COUNTIES OF CHELAN, DOUGLAS, OKANOGAN AND GRANT.	AN, DOUG	LAS, OK.	ANOGAN	AND GRA	NT.			
DISTRICT AND ACREAGE	Age of Trees	Apples	Orab Apples	Quinces	Pears	Apricots	Plums	Oherries	Peaches
Pateros, Bridgeport and Gordon 2,171.54 acres	1-3 years 4-7 years 6-7 years 8-9 years 10 and older	60,619 71,860 8,850 4,067 2,908	88	88	1,120 1,674 423 187 924	124 260 18	88 88 se 88	8 ° 8 8 9 8 1	1,156 978 865 865 808 73
Brewster 1,119.29 acres	1-8 years 4-5 years 6-7 years 10 and older	13,076 43,504 16,228 7,488	6		282 188 110	22 21 21 21 21 21 21 21 21 21 21 21 21 2	905	02 166 187 813	277 1822 181
Malott and Okanogan 2,211.50 acres	1.8 years 4.5 years 6.7 years res 8-9 years 10 and older	21,946 100,602 19,135 1,875 1,800	30 17 3	20 1	1,084 1,086	286 1,719 640 88 71	3 8 8 c g	8 28 EEE	308 1,196 1,507 75 208
Omak 8,245 acres	1-3 years 4-5 years 6-7 years res 8-9 years 10 and older	47,151 116,761 32,750 260 490	£ 22 88	8 II	928 1,908 1,064	1,848	25 E	001894	8,080 4,786 2,981
Riverside and north 973.48 acres	1-8 years 4-5 years 6-7 years 6-7 years 10 and older	22,776 85,648 618 901 8	20	04	1,214 841 18 86 86	257	172	100	1,789
Methow Valley 1,682.00 acres	1-8 years 4-5 years 6-7 years 8-9 years 10 and older	51,879 26,168 10,111 1,488 1,868		8,786 182 4 4 170	8,796 182 4 170	2 00 E	5 41 16	192 408 41	2 1122

Wenatchee-North Central Washington District—Continued, COMPRISING COUNTIES OF CHELAN, DOUGLAS, OKANOGAN AND GRANT

DIBTRICT AND ACREAGE	Age of Trees Apples Orab Quinces Pears Apr	Apples	Orab	Orab Quinces	Pears	Pears Apricots Plums Oberries Peaches	Plume	Oberries	Peaches
Moses Coules 745.00 acres	1-8 years 4-5 years 6-7 years 8-9 years 10 and older	510 18,680 19,800 2,705	Ę	8 5	ढ इ	3528	180	12,178 8,916 130 89	12,178 8,915 88
Grant County 5,170.74 acres	1.3 years. 176, 248 250 2,644 684 348 1,146 1,056 4.5 years. 128,010 50 5,426 569 569 1,240 4,641 64 57 years. 11,631 5 6 148 278 5 148 1,041 1,	176, 248 128,010 11,581	20 SG		2,644 5,486 18	27.8 868 87.8	25.00 00.00	1,146 1,240 143	1,006
Totals41,711.86 acres 2,678,172	92	2,678,172	8,890	003	128,523	40,701	11,096	28,008	108,882

Spokane County.

oponano county.	
District	
East Farms 92,000	Apples
West Farms 24,000	"
Pasadena Park 16,000	**
Opportunity	71
Pierce 12,000	**
Vera120,000	** *
Greenacres 58,000	**
Trentwood 24.000	**
Otis	**
Arcadia560,000	**
Foothills 18,000	**
Pleasant Prairie 16,000	**
Green Bluffs 32.000	**
Hanauer Graves	**
Miscellaneous	**

Two thirds of the apple trees in Spokane County classed as five years and older.

Kittitas County. Apples, 5 years and younger................ 400 Acres

Apples, 6 years and older	**
Mixed and family orchards1,625	**
3,625	**
Yakima County.	
Apples, 5 years and younger14,975	Acres
Apples, 6 years and older	44
Peaches and apricots	**
Pears	,,
Prunes and plums	**
Cherries 75	**
Family orchards 1,788	**
45,621	**

PERCENTAGE OF VARIOUS VARIETIES, 1916. Yakima County.

	-	
Variety	Percent	Acreage
Winesap	15.52	6,201
Jonathan	. 14.81	5,916
Ben Davis	. 12.77	5,103
Spitz	. 6.64	2,654
Mo. Pippin	. 6.45	2,578
Yellow Newtown	. 5.92	2,366
Rome Beauty	. 5.51	2,203
Gano	. 3.4	1,339
Black Twig	. 2.69	1.075
Stamen Winesap	. 2.48	991
Grimes Golden	. 2.46	986
Ark. Black	. 2.24	896
W. W. Pearmain	. 2.06	824
Red Cheek Pippin	. 1.56	626
York Imperial	. 1.34	537
Delicious	. 1.47	587
Wagener	27	107
Odd varieties	. 12.41	4,954
	100	39,944

FRESH FRUIT SHIPMENTS-1915.

	Mixed	12 cars 700 cars 758 cars
	Other Berries	1 car 4 cars 4 cars 2.000 crates 1,500 crates 589 cars
	Strawberries	
REFORT.	Toma- toes	26 cars 26 cars 26 cars 1 car 1 car 226 cars 226 cars 26 cars 2700 bxs. 4500 bxs.
THIS REEL	Canta- loupes	
	Water- melons	28 cars 8 cars 10 cars 4 cars 80 cars 4 cars 80 cars 2 cars 12 cars 2 cars 9 cars 9 cars 150 cars 150 cars 150 cars 150 cars 150 cars 250 bxs.
STOWN ELSEWHERK IN	Cherries	
TOWN E	Apricots	11 cars 9 cars 80 cars 2 cars 22 cars 52 cars 52 cars 52 cars 52 cars 52 cars 52 cars 53 cars 196 cars 10 cars 10 cars 120 cars
	Plums and Prunes	11 cars 5 cars 9 cars 80 cars 155 cars 2 cars 2 cars 2 cars 55 cars 52 cars 52 cars 156 cars 176 cars 178 cars 178 cars
	Grapes	8 carr 61 carr 11 carr 68 carr 266 carr 19 carr 9 carr 80 carr 26 carr 2 carr 2 carr 8 carr 5 carr 2 carr 2 carr 11 carr 5 carr 2 carr 2 carr 12 carr 10 carr 2 carr 52 carr 943 carr 1,600 carr 4 carr 52 carr 2,700 brsz. 1,600 brsz. 3,000 baskers 400 crates 800 brsz. 800 brsz. 400 crates 1,416 carrs 2,002 carr 56 carrs 523 carrs
-	Peaches	6f cars 266 cars 175 cars 6 cars 6 cars 10 cars 1,500 cars 1,600 bxs.
	Pears	6 cars 8 cars 66 cars 101 cars 55,400 cars 850 cars 175 cars 6 cars 6 cars 11 cars 6 cars 60 cars 11 cars 8 cars 6 cars 7 cars 7 cars 8 cars 8 cars 7 cars 8 cars 8 cars 11 66 cars 954 cars 7 cars 954 cars 7 cars 15
	Apples	6 cars 101 cars 5,400 cars 81 cars 6 cars 11 cars 60 cars 46 cars 46 cars 364 cars 8 cars 8 cars 16,800 bxs. 1,260 bxr. 1,260 bxr. 1,260 bxr. 1,260 bxr.
	OOUNTIES	Mactin G cars S cars G cars B cars

EXPORTS OF FRUITS BY COUNTIES.

SHIPPED FROM COUNTIES AS LISTED BELOW, SEASON 1914.

NOTE: Pacific county exported 4,000 barrels cranberries and Clarke county exported 2,000,000 pounds dried prunes. (The figures below give the number of standard size packages.)

Asotin Cars 12.0 Benton Cars 84,107 Chelan Cars 8,340,666 Clarke Cars 12,300 Columbia Cars 18,300 Cowiltz 15,500	5,040 83,749 83,749 157,986 3,000 3,000 4,8		Samma I		Cherries	(spunod)	Canta- loupes	Grapes	Toms-	Straw- berries	Other	Mixed Fruit
2 C C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2		•			25,200				2,200			
S C C C C C C C C C C C C C C C C C C C		211,615	14.0 5,943	8.8 2,576	5,670	382,060	48,666	34,212	12,575	41,807	8,219	
Cars					257,309	:	136.0	R :	ig:11	8	7.0	
Cars		•			274.4			3,500	3,000	5,000	7,000	
Oars		3.150			1.240			2.6		3 0.	750	
:		3.5			1.0						1.2	
Cars				_	0.3							
	£	90,	1,0%		88 6		:		:	:	-	
Franklin 2,500	i	3,60	7	•	:	:		8		1,500		
Cars	:			:	Ş		1:0	8.00		₹ .	GF.	
Cars			0.7		8 8			1.8	9.0		9:1	
		•	2,780	8,	-	•	-		:	:	:	:
			, ;	:	32	3,200	83			-	112	
	200	£.600.4	15.000		1.50.08	72.000.1		3,000	3,000 5,500	\$2,000	÷ 98	
Cars			15.0		1.8	2.4		2.8	0.0		8.0.8	
Cars									1.0	: :	1.6	
Lincoln	9,450 15.0	15,750	6,000 6.00 6.00		1,260			6,000 4.6.4				
<u>:</u>	:	:	÷			-		13,000	-	:	:	

111111			:::	88
		8		86,700 80.5
847,900 562.8 100	41,300.1 86.1	1,50		5 643.4
85,700 56.0 2,870	35,000 35,000 56.5	2,800 2,800 4.4	8,500	74,218 100,826 67.4 254.5
11,000	6,000	17,000	12,988 11.7	74,218
	0	7,200	59,500	129,912
	800 1.0	1,500	106,000	156,996
	30,000	80,000	8,750,000	146,534 889,240 4,889,260 156,996 146,6
80 0.1 518 0.4	7,560 6,800	25,200	63,000	399,840 882.7
7,180		5,040 5.0	16,880	146,534
89, 210 80. 2	58,000 1,000	29,000 28,0	148,000	858,656
2,040 2,040 800	5,970,8 6,000,8	18,270	906,810 906.8	1,500,648
5,500 8.8	25.0 25.0 25.0	5,046	449,820	1,102.8
144,888 5,800 7,788 80,210 7,1180 80 11,000 80,700	277, 202, 140.0 8.0 98, 180.0	98, 200 140.0	3,308,080 449,820 Cars 5,248.0 714.0	7,561,508
Okanogan Oars Plerce Oars	okane Cars	Walla Walla Cars Whitman	Yakima	Totals 7,561,508 604,764 Oars 11,986.5 1,102.8

EXPORTS OF FRUITS BY COUNTIES.

SHIPPED FROM COUNTIES AS LISTED BELOW, SEASON 1914.

NOTE: Pacific county exported 4,000 barrels cranberries and Clarke county exported 2,000,000 pounds dried prunes. (The figures below give the number of standard size packages.)

COUNTIES	Apples	Pears	Peaches	Plums and Prunes	Aprieots	Cherries	Water- melons (pounds)	Canta- loupes	Grapes	Toma- toes	Straw- berries	Other	Mixed
Asotin		5,040		14,000	8,820	25,230				2,200			
Benton	84,167	88,749	211,615	5,943	2,576	5,670	382,060	180.0	34,212	12,575	41,907	8,219	
	60	157,986		88,78 7.88	108,145	257,309							
Clarke		3,000	÷			:			3,500	3,000	5,000	7,000	
Columbia	18,900	•	8,150			1,260			?				
Cowlitz	1,500	:	8.5			30.0						7.7	
Cars	2.3												
Douglas	22,618		804	1,020	3 3 3 3		:		- : :			-	
Franklin	2,500	:	3,000	7	•	:	:	:	1,000		1,500		
		:		8	000	0	90.1	1.0	9.6	:	4.2	Š	
Cars				, , 0.4	9.0	3.5			1.8	9.0		1.5	
Grant	_			2,760	8	<u>:</u>	:	:	-		-		
Kittitas	46,620			7		:22	3,200	83			18	112	
Cars	74.0					0.08	0.1					0.2	
Klickitat	86,000 86.5	900	5,500	15,000	2,000	1,500	72,000		3,000	5,500	8.08 8.08	80	
Lewis		:	:					:	:			2,250	:
Cars Lincoln	11,250	9,450	15,750	9,000		1,260			000'9	0 :		1.6	
Cars	17.8		15.7		:	1.0	:		100.00	:	-	:	:
	:				-	- -	:	:	30.0	:			:

 	.1 85,000 41,900 .5 86.56 46.56	35,700 30.5		86,700
847,900	41,300 41,300 65.5	1,500		406,881 643.4
86.700 88.0	85,000 25,55	2,800	3,500 5.5	160,325 254.5
825	9	7,000 200	2.0 12,988 11.7	74,218
	0.1	7,200	50,500	129,912 74,213 160,325 406,381 643.4
	300	1,500	105,000	156,986
	30,000 1.0	29,000 5,040 25,200 6,000 1,500 7,200 17,000 2,800 1,500 85,700 25,200 6,000 1,500 2,800 1,500 85,700 1,500	8,750,000	899,340 4,889,290 156,995 882.7 146.8 445.6
80.88	7,590	28,28 20,22 20,22	68,000 52.50	300,340
7,180		5,040 5.0	16,880 16.4	7 146,534 8
89,210	88 88 6.83 6.00	20,000	148,000	858,656 858.7
7,782 7.840 8.640	5,970	18,270	906, K10 806.8	1,500,643
5,505	0.8 15,750 25.0	5,04.0	449,880	1,102.8
Outs 144,888 B,566 7,782 89,210 7,140 80 1	27, 200 8.15 8.16 9.06 9.06	. 88 28, 88 0.08, 68	3,308,090 5,248.0	7,561,508
Okanogan Oars Pierce Oars Ikamania Oars	Spokane Cars Stevens		Cars 100.0 469,880 906,810 148,000 16,380 63,000 8,750,000 106,000 16,500 Yakima Oars 5,246.0 714.0 906,810 148.0 16.4 62.5 125.0 800.0 46.7	Totals

EXPORT OF VEGETABLES BY COUNTIES IN STATE OF WASHINGTON.

SHIPPED FROM COUNTIES AS LISTED BELOW, SEASON 1914.

(The figures below give the number of standard size packages.)

Oelery	1,200 1,04.0 1,000 8,8 8,0 600 2,0 600 600 600 600 600 600 600	19.8
Aspara-		10,00 86.2
Mixed	20 0.1 0.0 0.4 0.4 13.0 1.08.0 1.08.0 1.08.0 1.17.0	286.7
Squash (pounds)		20.0
Corn	1,520 600 500 500 500 500 500 500 500 500 50	88.0
Carrots		16.0
Rhubarb Carrots	S 81	61,080 68.5
Cucum- bers	2,300 1,004 2,00 3,000 8,000 2,000 4,000 8,00	24.6
Cabbage	1,200 8,400 8,400 42.0 1,000 400 63.0 63.0	108.0
Egg Plant	2.00 2.00 2.00 2.00 3.00 3.00 3.00	15.8
Onions	8,000 81.00 81.00 800 800 800 117,280 11.0	2.705 20.705
Potatoes		2,600.0
COUNTIES	Benton Oars Garke Cars Columbia Cars Cowiltz Cars Kittitas Cars Kitcitat Cars Skemania Cars Skemania Cars Wahklakum Cars Wahklakum Cars Wala Walla Cars	Cars

COMMERCIAL SHIPMENTS OF VEGETABLES, 1915.

(Figures indicate number of standard size packages.)

					-										
OOUNTYES	Potatoes	Potatoes Onions	Egg		Oab- Oucum Celery bage bers	Celery	Rhu- barb	Oar- rots	Green Corn	Other Vege- tables	Mixed Vege- tables	Nuts	Oa- sabas	Aspar- agus	Oa- Aspar- Surabagas sabas agus Turnips
Spokane Cowitz Clarke	27,000 86,000 78,000	909		800 884	2,500							18,000 lbs			2,500
Klickitat	9		200	:	:	:	:	:	:		:	10,000 lbs	8	:::	
Plerce	3,13,0 38,0 38,0 38,0	8		4,000	8,600	8,200	8,689	15,000		2,500					
Benton	27,000		8,000							9					8,000
Walla Walla	30,100	184,900	420	31,525	18,875	92	1,720	2,600		2	127,150				
Asotin Series 50 4,000 4,000 2,940 2	875,000	88	2,940	2,600	14,880	\$:	\$ \$	0,000	4,800	<u> </u>				2,400	22,500
Mittitas	27,25	<u>:</u>	-	<u> </u>	-	-		- :::	- ::::	-	-	<u> </u>	:	:::::::::::::::::::::::::::::::::::::::	:

IMPORTATION OF FRUIT INTO WASHINGTON.

FROM ALL POINTS OUTSIDE OF STATE DURING SEASON OF 1914. (Figures indicate number of standard size packages.)

											1					
COUNTIES	Apples	Pears	Peaches	Plums and Prunes	Apri- cots	Oher- ries	Oranges	Lemons	Grapes	Oranges Lemons Grapes Bananas Osuta.	Canta- loupes	Water- melons	Berries	Toma- toes	Grape Fruit	Mixed Fruit
Asotin Clarke Columbia Cowitz Garfield Grays Harbor. King Kirchitst Lewis Pacific Pacific Skamania Spokane Thurston Walla Walla Walla Walla	2, 28, 28, 29, 29, 29, 29, 29, 29, 29, 29, 29, 29	11.880 1.706 1850 1850 1850 1850 1850 1850 1850 1850	82,473 82,473 1,286 1,000 1,000 1,000 2,789 84,600	100 10,392 2,000 1,000 1,000	2,080 2,000 2,000 2,000 2,000	50 561 561 861 8,400 75 75 75	1,000 1,000 1,000 1,000 1,200	25 25 25 25 25 25 25 25 25 25 25 25 25 2	800 800 86,500 146,005 1,200 1,800 1,800 1,806	1,000 1,000 1,000 1,000 1,500	400 400 11,750 11,060 200 200 200 200 200 200 200 200 200	(pounds) 15,000 1,250 10,000 100 300,000 88,813 19,500 600 480,000 15,120 870,000 15,120 870,000 22 12,600 1,260 12,600 11,264 12,600 11,264 12,600 11,264 12,600 11,264	88,818 88,818 88,818 88,818 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200	800 800 1112,682 1,630 8,800 450 450 141,666		200 200 200 200 200 200 200 200 200 200
	_ !	_		_		_									_	

NOTE: The following fruits were imported into King county during the year ending January 1, 1915: Quinces, 405; pineapple, 904; pomegranates, 413; casabas, 2,840; tangerines, 140; Mexican limes, 138; persimmons, 397; Japanese pears, 371; Japanese oranges, 38,671.

IMPORTS, FRUIT GROWN OUTSIDE OF STATE, YEAR 1915.

(Figures indicate number of standard size packages.)

Other	1000
Straw- Berries and berries Cr'nberries	2,482 58,725 40 bbl. 100 100 100 100 100 100 100 100 100 10
Straw- berries	64 680 680 680 680 680 680 680 680 680 680
Canta- loupes	47,985 1,100 1,700 2,100 1,700 18,900
Toma- toes	25, 30, 30, 30, 30, 30, 30, 30, 30, 30, 30
Water- melons	6017 (pounds) 603 88,000 600 88,000 80,000 5,000 5,000 296 1,880,000 5,000 806 19,000 806 123,780
Cher-	200 000 000 000 000 000 000 000 000 000
Apri- cots	2,961 5,017 801 805 805 805 805 1,000 805 1,000
Plums and Prunes	78,873 10,588 2,961 5,617 4,880,000 6,500 800 800 800,000 1,800 800 80,000 1,800 80,000 1,800 80,000 80,000 10,004 1,278 821 828 121,000 120,000
Grapes	78,873 1,600 1,000 28,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,0
Lemons	41, 880 1, 060 1, 060 1, 060 1, 060 1, 060 1, 20 1, 20 1, 14 10, 14 1, 1
Apples Pears Peaches Oranges Bananas Lemons Grapes	101,075 1,000 1,000 7,800 7,800 1,760 85,700
Oranges	173, 68 1, 160 1, 160 1
Peachos	6,502 3,668 22,700 600 11,000 12,000 350 1,000 1,273 255 2,668 800 1,294 6,346
Pears	86 21 88 25 88 25 12 12 12 12 12 12 12 12 12 12 12 12 12
Apples	6,502 3,666 600 100 2,000 350 1,273 255 1,274 649 1,284
COUNTIES	King

IMPORTATION OF VEGETABLES INTO WASHINGTON.

FROM ALL POINTS OUTSIDE OF STATE DURING YEAR 1914. (The figures below give the number of standard size packages.)

Corn	3,000 3,000 10 8,000
Car- rots	2,670 1,491 82 50 250 50 250
Egg Plant	156 1,582 1,582 1,583 1,995 1,582 1,791 1,996 1,582 2,670 1,491 246 3,000 1,696 1,791 8,606
Tur- nips	1156 1166 1168 200 200 1189 1189 1100 1168 1168 1168 1168 1168
Oueum- bers	158 108 100 200 200 189 185 100 100 1,686
Rhu- barb	16,604 1,965 708 1,682 2,670 1,491 246 3400 350 350 350 350 350 350 350 350 350 3
Aspar- agus	10.186 256 300 10.286 100 5,100 5,100 800 800 800 17,786 16,904
Celery	10,186 250 250 250 250 5,100 1,200 1,200 80 300
Sweet Potatoes	24,011 10,196 16,604 1,966 778 1,682 2,670 1,491 10,250 1,200 189 250 1,500 1,200 189 250 1,500 1,491 250 1,500 1,500 1,500 1,200 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,700 1,
Mixed	4,200 20,273 20,273 26,400 48,200 1,800 1,800
	81,880 9,210 999 800 990 800
Lettuce Caulifower	2,000 2,000 1,800 6,000 6,000 1,000 1,000 6,000 1,000 6,000 1,000 6,000 1,000 6,000 1,000 6,000 1,000 6,000 1,000 6,000 1,000 6,000 1,000 6,000 1,000 6,000 1,000 6,000 1,000 6,000 1,000 6,000 1,000 6,000 1,000
Oab- bage	1,750 2,000 48,911 22,629 1,730 1,800 1,074 200 10,256 6,000 8,000 1,000 2,000 500 2,000 600 600
Onions	1,756 48,911 2,000 1,776 1,074 10,250 2,000 2,000
Pota- toes	500 500 50,551 50,551 2,250 6,750 8,000 7,000 7,000
COUNTIES	Asotin

NOTE: Additional vegetables were imported into King county from points outside of the state as follows: Peppers, 18,600; pess, 2,072; beets, 80; beans, 603; Brussels sprouts, 82; squash, 860; parsnips, 125; garlic, 488; artichokes, 888.

IMPORTS, VEGETABLES GROWN OUTSIDE WASHINGTON, YEAR 1915.

(The figure below give the number of standard size packages.)

COUNTIES	Pota.	Pota- Onions Frgg	Fee	Cab	Cab- Cucum- Celery bage bers	Celery	Rhu- barb	Oar- rots	Green	Other Vegetables P	Sweet Potatoes L	Lettuce	Caull- flower	Green	Per Pers
King	808'08	45,764	19,764	20,580		10,491	1,919	1,806		122,963					
Thurston	:	96	8		188 300	08	22			27	1.500	8			:
Pacific	8	8	82	23	23	8	9	8	:	82					
		2,100	9	2,40	8	2	:	:::::::::::::::::::::::::::::::::::::::	:		921	:	22	86	8
Skamania		8	-	25		:	:		\$:	:::::::::::::::::::::::::::::::::::::::		
Wahkiakum		_	-		-							-			:
Klickitat	2,000	2,780	8	:		8		:::::::::::::::::::::::::::::::::::::::	8			:::::::::::::::::::::::::::::::::::::::			:
Clarke		9	8			:						:			:
Spokane	15,000	2,500	:		:	000,5	:		:		16,500				:
Pierce			:	8 ,6	Ę	2,882	275		\$	25,986					:
Cowlitz		9,0	:::::::::::::::::::::::::::::::::::::::	2,000			:		:::::::::::::::::::::::::::::::::::::::	7,500					:
Walla Walla	•	12,000		:					:						
Yakima		8	-	240	175	98	8		:	100					
Whatcom	5,83	8,006	210	1,906	8	8	818	35							:
Snohomish	-	1,800			- : :	255	2	-	- : :		-	-	<u>-</u> :		

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OOUNTIES	Apples	Pears	Peaches	Plums and Apricots	Apricots	Oherries	Beans	Squash Grapes	Grapes	Rasp-
				Frunes	Ì					Derries
Asotin	9	156,200	84,000		0,980		:		:	:
Clarke	25,000	810,782		9,473		144,129			14,821	
Island	207,600		:	16,200	:	6,000	2,400	:	:	27,000
King	8	92,98	208		3,945	18,880	000 200		4,129	135,542
Pierce	134,400 (83,495	198.854	000.00	114,766	102,400	208.071	20,03	707.70		8,800,071
San Juan	_	102,000		000'08		18,840				36,000
Skagit	22,000								:	
Skamania	:	:		:					:	
Snohomish	7 144 000	24,600	24,600	40,200	:	4,800	8		:	229,800
Thurston		450,000	228,000	492,000	92,000	402,000	86,000	80,000		174,000
Walls Walls Whatcom	100,000 28,000	276.280	276, 260	:	986,780	817,460	400,380	088 007		1.048.731
Yakima	2,817,511	000,000	150,000	<u>.</u>		•				
Totals 14,202,590	14,202,580	2,161,862	586,702	1,368,538	168,306	1,297,420	478,446	402,79	678,960	4,946,144

Total Amount in Pounds of Fruits and Vegetables Used in By-Products.—Season 1914.—Continued.

COUNTIES	Black- berries	Straw- berries	Other Berries	Oucumbers Cabbage	Cabbage	Dried	Beets	Cauli- flower	Rhubarb	Toma- toes
Be of fu										38,760
Jarke	2,007	74,050	22,815			2,000,000				
sland	56,400	16,800	24,000				41,400			: : : : : : : : : : : : : : : : : : : :
King	118,109	310,816	182,078		1,680,000			000,000	88,000	084.80
Pierce	2.814.354	466,735	948,290		55 182	188		629	190,500	000
San Juan						12,000				
Sandaria Kamania						100.000				
Snohomish			000 010	600			0	11		
Thurston	132,000	330,000	330,000 456,000	onn'ann	27,000	27,000	0,200	M,11		
Matter Wall Wall Wall Wall Wall Wall Wall Wal	266,300	220,983	220,983 30,900	1,500	90	400 19,560 2,600,000			19,560	2,600,000
Totals 3,417,152 1,466,674	3,417,152	1,466,674	979,517	979,517 2,041,500 2,072,582 2,112,000	2,072,582	2,112,000	089'07	31.679	31,679 308,080 2,665,220	2,665,220

FRUITS AND VEGETABLES USED IN BY-PRODUCTS, YEAR 1915.
(These figures show the number of pounds of the fresh product used.)

	les Pear	Apples Pears Peaches C	cher-	Grapes	Apri-	Straw- berries	Straw- Black- berries berries 1	Rasp- berries	Other Berries	Beans	Squash	Oucum- bers	Cab- bage	Quince	Rasp. Other Beans Squash Oucum. Cab. Quince Prunes berries Berries	Toms- toes
ing 548, hurston 220,	300 283,5	200	12,509	6,102	1,835	6,102 1,835 34,696	21,892	100,503	201,567	60,000	30,000	1,300,000	70,000	2,154	201,687	
Senton		4,000		24,000										· ·	7700	
ckitat				.63	50,000			520,000							500,000	500,000
larke				*******		İ		:			-			Ī	16 P0 1008	
Spokane 3,200,	620 292.7	16	244,799	-		8 282 261	3 176 282	2.083.820	1.228.741	9.891	189.426	220,000	640.248		197. 287. 8. 176. 289. 9. 083. 890. 1. 233. 741. 9. 291. 188. 429. 290. 000. 640. 249.	
alla Walla 950,	000	67.000	105.000									90,000	20,000		000,000 20,000	117,000
akima 3,186,	000	24,000				11 000	35 830	35. 890 104. 740 54. 196147. 884	54.195	147 964					3,000,000	3,000,000

COUNTIES RECEIVING WASHINGTON-GROWN FRUIT—1914.

(The figures below give the number of standard size preceases)

COUNTIES	Apples	Pears	Peaches	Plums and Apricots Of	Apricots	Oherries	Grapes	Canta- loupes	Water- melons	Toma-	Berries	Mixed
Clarke	900		2,000		982		300	220	(pounds) 5,000	002	1,250	
Cowills	•		86,6	:					******			:
Grays Harbor	21 680.	11.970	48.400	000	200	138	1300					
King		48,008	215,814	16,662	24,917	24,880	65,686	78,445	7,602	40,154	173,237	
Lewis		1,260	25,200	98	878	904	2,600	1,050	000'06	3,300	2,100	
Pacific		910	5,847	998	250	718	8	554	000'09	1,130	1,630	
Pierce		22,060	000,00	3,000	2,000	7,200	15,800	13,650	960,000	2,200	46,620	1,800
Skamania	000 00	2	9 50	8	100	000	6	10	986	8	5	
Spokane	8	25.	3	200,8	8 2	2, 3,	30,1	001,100	300	3	9	3
Wanklakum	98	ONT.	MZ		8	0)				BIT	1,000	
Totals	879.216	866.08	410.561	80.898	38 305	667 99	198 040	153 714	000 F80 o	73 484	985 DA7	7 200

COUNTIES RECEIVING WASHINGTON GROWN FRUIT, YEAR 1915. (The figures below give the number of standard size packages.)

COUNTIES	Apples	Pears	Peaches	Grарев	Plums and Prunes	Apricots	Cherries	Water- melons	Toma-	Canta- loupes	Straw- berries	Other Berries	Mixed	Cran- berries
Spokane	55,400	6,800	120,000	40,300	3,000	2,000	9,600	(spunod) (960,000	\$1,900	17,861	20,160	7,200		
Clarke	:		2,000			2,700					3	3 :		
Wahkiakum		2,000	8		10,000 10,000	921								
Pierce	:	11,863	127,702	20,012	4,139	10,608	12,257	230,048	8,179	14,590	9,79	11,756	88	
Grays Harbor.		10,080	39,000	1,300	1,000	1,367	1,497		1,100	:	1,280	240		60 bbl.
Pacific		8	7,750	9	2 8	200	25	8,99	8,	88	88	0 8		:
King	380.788	21.881	213,138	24,591	16.264	8 38	40.00	687,500	45,308	48.562	98,126	85.871	146.348	
Columbia	':								1.100				2	
Walla Walla	:		1,000			250							1.200	
Garfield	8,780	88	3,000					30,000			1,200		8	
Yakima	:	:	:							:		850		
Whatcom	19,541	3,865	78,013	¥00,8	6,772	10,087	10,712	77,661	18,925	8,929	20,010	8,012		
Snobomish		7,000	3,300	6,500	2,800	2,500	4,800	000,02	4,500	2,400	7,500	1,550	88	280

COUNTIES RECEIVING WASHINGTON-GROWN VEGETABLES-1914

(The figures below give the number of standard size packages.)

COUNTIES	Potatoes	Potatoes Onions	Cabbage	Cabbage Lettuce	Caulf	Mixed Vegetables	Celery	Aspar- agus	Rhubarb Cucum- Turnipe bers	Cucum- bers	Turnips	Egg Plant	Car- rots	Corn
Clarks	S	٤												
Garfield	:	}				2.400				_				
Grays Harbor.	9.730	1,000					00		88	167		8	8	230
King	524,453	12,384	7,398	9,762	148	19,687	3,085	15,377	12,115	11,807	2,942	2,874	1,975	8,011
Lewis	4,250	1,000		8,400		1,200	90	88	215	8	1,200	8	8	567
Pacific	8,500	88		88	112	250	115		Q	8	250		250	313
Pierce	83,250	2,500			:	000,6				150		2,000		1,450
Spokane	10,000	2,000			:::::::::::::::::::::::::::::::::::::::	7,800	1,500	:	8	200		200	25	1,250
wahkiakum		<u>.</u>		<u>:</u>	:		8	:		8		:	:	
Totals	640,672	30,077	15,398	13,542	290	40,337	3,700	16,007	13,961	12,008	4,392	5,490	3,575	6,841
	1				-	-							_	

NOTE: Additional vegetables, as follows, were shipped into King county from other counties in the state, during this year: Butabagas, 387; squash, 1,024; parsnips, 264; peppers, 3,644; spinach, 4, 161; beets, 900.

COUNTIES RECEIVING WASHINGTON GROWN VEGETABLES, YEAR 1915.

(The figures below give the number of standard size packages.)

COUNTIES	Potatoes	Onions	Egg Plant		Cabbage Cucumbers	Celery	Rhubarb		Carrots Green Corn Other Vegetables	Other Vegetables
Spokane	15,000			1,200						
Pierce		:	1,883	1,888	22		147			7,588
trays Harbor		3,58		909	8 8	3 2	3 3	3 25	3 8	042
Lewis	8,750	1,250		0,00	1,200	900	11 940	000	92	2,000
Columbia	1,00	35.		8	§	8	2007,0	007,0		1,200
Garfield 500	200	250		9		3				009
Whateom	16,608	1,884	889	28.5	1,850	1,982	36 §	1. 8	1,785 85,88	9:
		3	3	}	}	}	}	3	3	2

NURSERY STOCK PRODUCTION—SEASON 1914.

COUNTIES	Apples	Pears	Peaches	Plume and Prunes	Apricots	Cherries	Nuts	Grape	Trees	Shrube
Apotin Senton	00.03 00.03 00.03	30,00 00,00 00,00	18,200	2,000	1,000	4,400				15,800
Clarke Cowlitz	2000	142.000	988	75,000			200	500		
Douglas Grant	00,08 00,08	000'06	2,000	3,000	8 80 80 80 80	18,000	8,500	8,500	98,000	<u>.</u>
King Kilchitat		88,000	1,000	•		80,000	000,08			19,800
Mason	75,000			100,000				100,000		; ;
Pierce Skagit Spokane	1,000	300	10,400 10,100	1,550	100	1,500	1,012	1,012 86,500	96,500	125,250
wana wana Yakima	648,696	172,966	171,864	176,89	32,267	43,568	18,655	18,655		
Totals.	2,254,006	492,446	206,904	176,821	738.12	88,788	18,367	100,000	180,500	398,843

NOTE: In addition to the above King county produced 16,000 berries and Yakima county produced 5,000,000 seedlings.

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STITISTICS	Annles	Dogre	Poschoe	Peaches Dums and Ancients Cherries	Aprilante	Chorring	Notes	Gre nos	Surruge &	Suruce and Trees
	4 ppics	2	1	Prunes	80014		935	3	Deciduous	Deciduous Evergreen
O C C C C C C C C C C C C C C C C C C C	2					6			200	8
Clarks	8			FO FOO		87			8,	3,0
Klickitat	10.000	600	000			02		150		
Mason	222	3	3		}	}		200,000		
Lewis							-		98	
King	98,000	48,500	2,200	12,000	250	8,000 13,000	905		12,850	21,600
Walla Walla									5,200	
Asotin	8.00	1.000	2,000		8	005				
Yakima	170,000	78,000	078,76	192,000					196,075	218.600

IMPORTATIONS OF FOREIGN NURSERY STOCK.

FOR PERIOD JUNE 15, 1914, TO JULY 1, 1915.

FROM	то	Orna- mental De- ciduous Trees and Shrubs	Coni- ferous Trees	Ever- greens	Field Grown Florist Stock	Fruit Trees and Fruit Tree Stock	All Other Plants	No. of Cases
Scotland Sweden Belgium Ireland France Holland Belgium France Belgium Canada France Belgium Holland Holland Holland Holland Holland England England Belgium Japan France Ireland Belgium Japan France France France	Bellingham. Cape Horn. Everett. Lynden. Mt. Vernon. Pt. Townsend. Pt. Townsend. Prosser. Snohomish. Spokane. Spokane. Spokane. Spokane. Seattle. Seattle. Seattle. Seattle. Seattle. Tacoma. Tacoma. Tacoma. Toppenish. Wenatchee. Wapato	104 48 2,250		106 990 45 25 75 1,700 55 10 3,144 3 151 817 5,564	24 1,169	2,000 30 15,660 4,200 48,000 198,960		1 3 1 2 2 2 1 1 1 1 7 3 1 2 3 3 1 7 4 3 5 1 9 9 9 9 9 1 1 1 1 1 1 1 7 7 8 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Totals		100,860	298	114,119	1,484	258,840	19,408	394

Total imported plants, 494,959.

NURSERY STOCK FROM FOREIGN COUNTRIES.

JULY 1, 1915, TO JULY 1, 1916.

FROM	то	Orna- mental De- ciduous Trees and Shrubs	Coni- ferous Trees	Ever- greens	Field Grown Florist Stock	Fruit Trees and Fruit Tree Stock	All Other Plants	No. of Cases
Belgium Holland Holland	Seattle Seattle	535 14,013		772 4,817	700		200	21 123 *41
Columbia England	Seattle	8		100 70		250	636	20
England Japan Ireland	Thomas Seattle Seattle	5,000 6,975 130		96	157		132	24 1
France Japan	Seattle Christopher	5,5 0 0 70			480			8
Belgium Belgium Japan	Thomas Pt. Townsend. Kirkland	190 55			195			1 1 2 5
Japan Holland	Port Angeles Walla Walla	1,000 104						5
England Ireiand Holland	Walla Walla Mt. Vernon Mt. Vernon	300 153 1,440	 					i
Belgium Holland Holland	Snohomish Snohomish Everett	150 1,245 4,088		110 29				2 2 5 8
Ireland Holland	Everett Tacoma	11 1,580		29 91				1 10
Belgium Holland Belgium	Tacoma Puyallup No. Yakima	140 285 25						1 1
Prance	Wapato Wapato	132,550	4,420		11,000	7,000	500	34 †6
Belgium England	Spokane Spokane	465 818						8

[•] No. invoice. † 874 pounds pear and 85 quarts cherry seeds.

ORCHARD PLANTINGS FOR FALL 1914.
AS SHOWN BY COMPILATION OF POST CARD NOTICES.
D-Nursery stock grown within Washington. F-Grown outside of the state.

		i														
COUNTIES	Apples	Pears	Peaches	Plums and Prunes	Apri-	Cher-	Quinces	Nuts	Grape	Rasp- berries	Black- berries	Straw- berries	Miscel- laneous Berries	Miscel- laneous Roots	Orna- mental Trees	Orna- mental Shrubs
Adams		8.	81	92	16	æ,			150	24	83	100	9	:	8	85
Asotin		4 60	2 TT :		610	N 03	1	83	9 1 0		2		7 7	2 :	300	និត។
Benton		•	18	12	2000	4		7 7	* 8g	214	क्र		1,146	: 60	•	146 s
Chehalis		5 8 8	=======================================	883	3 F	2 2 2	2	133	S 3 : 1	141	1,163	9	283	:83	& 8°	444
Chelan D				S :	<u> </u>	3		20	12	8	1.11	9	75		ISI	1,278
	172 286	۲,	83	982	84	25 85 S		ရွမ	400	. 7	어전	500	308	82	2.3	æ 85
Clarke D			•	2 G	4.5	248			- 21		47	20 8	133			* *
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San Juan D		18		8	-	F	61	69		22	8	818	116	2	Ħ	2	
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Totals	41,048	10,706	4,376	17,271	1,084	18,749	151	4,696	4,350	7,992	8,400	718,377	11,864	20,055	8,810	20,00	
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ORCHARD PLANTINGS FOR SPRING, 1915.
AS SHOWN BY COMPILATION OF POST CARD NOTICES.
D-Nursery stock grown within Washington. F-Grown outside of the state.

COUNTIES	Apples	S Pears	Peaches	Plums and Prunes	Apri- cots	Cher- ries	Quinces	Nuts	Grape	Rasp- berries	Black- berries	Straw- berries	Miscel- laneous Berries	Miscel- laneous Roots	Orna- mental Trees	Orna- mental Shrubs
Adams	Q.		00 0	98	26	20 6	99 99	16	818		20	1,102	200	176	1,424	
Asotin	A			8 00		300	•	17	30	i	3	1,88	1	1	3	
Benton	18 19 19			31 3 2	1188	187	87 80	88	\$ \$		ន្តឧ	5,326	88	335	1,598	
Ohehalis	<u> </u>		86 gg	8. 8. 8.	18 21	1,965	6 10	176	2,981	•	110	Ē	240	1,000	22.28	
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Clarke	HA HA		8 17		10 m	88 5 8	Δ.	→ &			88	<u>8</u> 2	5 B	<u>ត្ត</u> ន	118	
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Douglas	86				00 0	88		12.5			8		5	91	8:	
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Grant	- 86 - 120 -	:	:	111	7.4	138	1	និ					:		Z†	:
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King	U.7.		185	1,490	\$8.1	3,119	36 €	220	i	7	61	52,497	5,162	13,887	9,00	88.4 88.6
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ORCHARD PLANTINGS FOR FALL 1915. AS SHOWN BY COMPILATION OF POST CARD NOTICES.

D-Nursery stock grown within Washington. F-Grown outside of the state.

* 2 %	8 5	 5 °°	麗	5 5	1,662	98	7.5	8	818	8 8	3 7	88	8	35	ខ្ម	8	8	88 :	122	8	88	28	8 2	្ទ	38	22	2 98	2
Orna- mental Shrubs					1		_																			_		
Orna- mental Trees	612	4	196	1,116	356	247	19	9	178	5	ន	8	125												:	6,430		
Miscel- laneous Roots	828	2 :		8,		237	3 6	3.2	83	143	218		17	221	191	121	45	ខ	\$ 2	9	200	₹ 8	8 2	=	101	4,120	1,40	-
Miscel- lancous Berries	E 8	8	71	6 .	1,221	9	5.5	88	2,619	\$ «	2	62	30	\$ 8	3 3	2	8	\$ 8	800	8	1,087	8	2 9	15	14	2,372	8 12 12	
Straw. berries	96	1,011	6,050	38	8, 13, 12,	10,086	2 28	20.4	16,240	38	2,30																	
Black- berries	22.8				155								33		:											1,528		
Rasp- berries	œ 8	3 64	8	8 3	38	8	\$ 5	28	88	85	2 83	7	Ħ	8 3	3 5	18	4	83 :	₹	7	82	88	3 4	8	**	2,501		
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Cher- ries	187	8 23	88	8	1.570	3	888	8 8	8	12 8	1 28	ĸ	108	8 8	3 9	Ξ	4	8 8 '	- 88	4				\$ ~	8	8,276	512	5
Apri- cots	200	0 64	8	_	3 28			25.			60							61	4 77	25	:	Ξ'		- 0	61	102	∓ %	}
Plums and Prunes	88.8	3 84	8	257	1.813	ਲ ਼	3 -	10,080	12,786	ж <u>-</u>	1.362	8	8	3 5	2 9	===	90	ន	9 67	83	65	147	5 2	3 8	9	1,183	12 2	
Peaches	19	12.0	130					, 57	_																	123		
Pears	88	:	22		5.805																				19	1,980	3 8	}
Apples	191	3-	88	8,	16.88	316	2 E	:2	200	8 ¥	3 8	137	22.5	3 5	3 %	35	24	8	\$ \$	127	88	9	2 4	}	2	6.047	36	. 8
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Kittita Kuckite Lewis . Lincoln Mason	Okanogan Pacific Pend Ore Pierce	Skagtt Skamania Snohomist Spokane Stevens . Thurston	alla hate hitm

LIST OF LICENSED NURSERYMEN AND AGENTS. Licenses Expire July 1, 1917.

Licenses Expire July 1, 1917.	
Name	Address
Beall Greenhouse Co	
Bon Marche	Seattle, Wash.
J. J. Bonnell	Seattle, Wash.
J. J. Bonnell E. E. Brown The Burdett Co.	Detroit. Wash.
The Dondott Co	Detroit, wash.
The Burdett Co.	Seattle, Wash.
A. J. Burt, Florist	Spokane, Wasn.
J. J. Butzer	Portland, Ore.
Burlen Lake Nursery	Seattle, Wash.
Capital City Nurseries & Greenhouse	Olympia, Wash.
Capitol City Nursery Co., Inc.	Salem, Ore.
The Burdett Co. A. J. Burt, Florist J. J. Butzer. Burlen Lake Nursery Capital City Nurseries & Greenhouse Capitol City Nursery Co., Inc. Agts: C. H. Dahle T. B. Warring Capital Hill Floral Co. Glasson & Carver	Everett, Wash.
T. B. Warring	Oak Harbor, Wash.
Capital Hill Floral Co	Seattle, Wash.
Gleason & Carver	Seattle, Wash.
Gleason & Carver Christopher Nurseries	Christopher, Wash.
Agts: E. H. Gilbert	Chehalis, Wash.
E. H. Goodwin	Tacoma, Wash.
E. M. Jensen	Gig Harbor, Wash.
Christopher Nurseries Agts: E. H. Gilbert E. H. Goodwin E. M. Jensen Geo. McCandlish	Christopher, Wash.
Clarke Bros	Portiand. Ure.
W. H. Davis	Kirkland, Wash.
Henry A. Dreer	Philadelphia, Pa.
Agt: Jas J. Karins	Riverton, N. J.
Jas. Driscoll	Spokane, Wash.
Emanatt Floral Co	Cronott Wash
Evergreen Nursery Fremont Floral Co. M. Furuya Co. Inc. Agts: D. Arlizumi	Seattle, Wash.
Fremont Floral Co	Seattle, Wash.
M Furuya Co. Inc.	Seattle, Wash.
Agts: D Arizumi	Seattle, Wash.
K. Kurosaka	Seattle. Wash.
S. Morinaka	Tacoma Wash
T Motosaka	rystal Springs Wash
Agts: D. Ariizumi K. Kurosaka S. Morinaka T. Motosaka German Nurseries & Seed House Otto Heege	Restrice Nehr
Otto Hoogo	Seattle Wash
A. A. Hinz	Tacoma, Wash.
Hollywood Gardens, Inc.	Seattle, Wash.
Home Nurgery Co	Richland, Wash.
Home Nursery Co. Agt: C. S. Gibbs Hoyt Bros. Co.	Richland, Wash.
Hort Brog Co	Spokane. Wash.
D. H. Hulseman	Lakeside. Wash.
Villad Numerica & Frank Fram	Vochon Wech
A A Volley Numerous & Condens	Spokene Week
Island Nurseries & Fruit Farm A. A. Kelley, Nurseryman & Gardener R. M. Kellogg Co., Inc. Lakeview Nursery, E. Bladine, Prop.	Three Divers Mich
L. M. Achogg Co., Hic	Souttle Wesh
Darl W Tange	Seattle, Wash.
Paul E. Lange Latona Floral Company Chas. H. Lilly Co.	Seattle, Wash.
Charter to a company	Seattle, Wash.
Chas, H. Liffly Co.	Seattle, Wash.
Lindley Nurseries	Seattle, Wash.
Madison Park Floral Co	Seattle, Wash.
Chas. Malmo H. W. Manike	Seattle, Wash.
McCormack Bros.	Tacoma, Wash.
McCormack Bros.	Iacoma, wasn.
Thos. B. Mechan Co. Methow Trading Co., Inc. Milton Nursery Co. Agts: J. M. Coble	Dresner, Pa.
Methow Trading Co., Inc	winthrop, wash.
Milton Nursery Co	Militon, Ore.
Agts: J. M. Coble	Huntsville, wash.
O. E. Batchell Oscar Hill W. W. Hobbs	Camas, wasn.
Oscar Hill	. Walla Walla, Wash.
W. W. Hobbs	Rockford, Wash.
P. E. Nickerson	Prosser, wasn.
Fred I. Moffet	Ellensburg, Wash
Northern Pacific Nursery	Toppenish, Wash.
D. Nishitani	Seattle, Wash.
Oregon Nursery Co., Inc	Orenco, Ore.
W. W. Hobbs P. E. Nickerson Fred I. Moffet Northern Pacific Nursery D. Nishitani Oregon Nursery Co., Inc. Agts: W. A. Perry R. W. Bignell C. C. Contents	Olympia, Wash.
R. W. Bignell	Wenatchee, Wash.
C. C. Cushman	Tacoma, Wash.
Harry Dean	Seattle, Wash.
Geo. Delaney	Gold Bar, Wash.
G. C. Cushman Harry Dean Geo. Delaney J. A. Fuller G. W. Gant	Chehalis, Wash.
G. W. Gant	North Yakima, Wash.
C. S. Hill	Oak Point, Wash.

Oregon Nurs	ery Co	Inc.—(ontinue	d:				
Agts:	B. F.	Johns					Stevenson	, Wash.
	J. McC	Clallum	• • • • • •	• • • • •	• • • • • •	• • • • • • •	Vancouve	r, Wash.
	John .	Morrison Deimor	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	Aberdeer	n, Wash. s. Wash.
	J. B.	Patton					Spokan	. Wash.
	B. T.	Perdue .					Brush Prairie	, Wash.
	D. E.	Vernon .			· • • • • • •		Spokane Spokane Spokane Wapate North Yakime Spokane Cama Portland	e, Wash.
Ornamental	& Fru	A ppleget	у Со	• • • • • •	• • • • • •	• • • • • • •	North Variation	o, Wash.
Overman's	Nurserv	Appleget		• • • • • •	• • • • • • • • • • • • • • • • • • •		Spokan	ı, wasıı. P Wash
Frank E. P	ayne .			• • • • • •				s, Wash.
J. B. Pilkin	gton						Portland	, Oregon
Plobeer Flo	rai Co.		• • • • • •	• • • • • •	• • • • • • •	• • • • • •	Seattle	e, Wash.
Agt:	F. E.	Davis				• • • • • • • •	Portla Centralia Portla Portla	Wash
Portland W	holesale	e Nurser	Co., I	nc			Portla	nd. Ore.
O. M. Prud	ler				• • • • • •		Puyallu	o, Wash.
Oneker No.	ursery	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	Puyallur	Wash.
Agt:	J. W.	Rav				• • • • • • • • • • • • • • • • • • •	Sal	l. Wash.
E. Riegel &	Cooper	r, W. I.					Vancouve	r, Wash.
Rosaia Bros	3			• • • • •	 .		Seattle	e, Wash.
Rosencrait	Pruit P	arm	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	Sumner	r, wasn.
Routledge S	eed & I	Floral Co	Inc				Portla	nd, Ore.
Russelville	Nurseri	es, Inc.					Portla	nd, Ore.
Agts :	Geo. I	Hale		• • • • • •	• • • • • •	• • • • • • •	Portis Portis Portis Portis Crawfor	nd, Ore.
Salem Nurs	F. L. '	w nitenea	a	• • • • • •	• • • • • • •	• • • • • • •	Crawior	I, Wash.
Agts:	J. E.	Barnett						. Wash.
-	HL.	Clark			• • • • • •	• • • • • •	Auburi	. Wash.
	J. F. B	Honeyford	1	· · · · · ·	• • • • • •	• • • • • •	Suquamisi	n, Wash.
	J. H.	Wylie					Tacom	. Wash.
Sandved Nu	rsery .						Seattl	e, Wash.
Neaview Pa	rk Gree	nhouse &	Nurser	у	• • • • • • •	· · · · · · ·	Seattle	e, Wash.
Joel Shoma	rai Co.		• • • • • • • • • • • • • • • • • • •	• • • • • • •		· • • • • • • •	Nellits	e, wasn. Wash.
Silva-Bergtl	holdt C	o., Inc					Kirkland Tacom Seattle Seattle Seattle Nellitte New Cast Louisi North Yakima Palnesvi Grandvlew Toppenisi Everet Seattle Seattle Seattle Toppenisi Palouse Anacorte Spokan Shelton Ritzville Ellensbur; Vancouvei Bellinghan Dayton Ritzville	e, Calif.
Stark Bros.	Nurser	ies & Ore	chard Co	o., Inc.	• • • • • •	• • • • • •	Louisi	ana. Mo.
Stores & H	MUS Arrigon	Co. Inc.	• • • • • • •	• • • • • •			North Iskima Palnegyi	l. Wasa. Ila Obio
C. P. Tate		, 1110.			. .		Grandview	Wash.
Toppenish ?	Vursery	Co	,			• • • • • • • •	\dots Toppenisi	n, Wash.
Garrison T	C. V	Abranam	90n	• • • • • •	• • • • • • •	• • • • • • •	Everet	t, Wasn.
University	Nursery	z & Gree	nhouse				Seattl	e. Wash
The Villa 1	Nursery						Portla	nd, Ore.
Chas H v	C. V. T	aggart .	• • • • • •	• • • • • •	• • • • • • •		.North Portis	nd, Ore.
Washington	Nursei	ry Co In				 	Toppenish	i. Wash.
Agts:	W. H.	Ball					Palouse	wash.
	W. F.	Barth	• • • • • •	• • • • • •	• • • • • •	• • • • • •	Anacorte	s, Wash.
	A M.	I G. Han Johnson					Sheltor	e, wash.
	D. J.	Kalkwari					Ritzville	, Wash.
	Mike I	Linder			• • • • • •	• • • • • •	Ellensburg	, Wash.
	J. W.	Petrain Titne	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	Rellinghen	Wash.
	G. W.	Thomas	 	• • • • • • • • • • • • • • • • • • •			Dayto	n. Wash.
Wonestak	Henry	Woehr .					Ritzville	. Wash.
Alton R w	Home I	Nursery .	- F C		• • • • • • •	• • • • • •	Wenatched	e, Wash.
White Salm	neelock	et rierde 	rt E. CC	THEORY.			Payto: Ritzville Wenatchee North Collin . White Salmon	. Wash.
8. P. Whit	ney						Seattle	. Wash.
O. J. White	ney	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	Seattle	Wash.
F. W. Wool	worth	F C0	• • • • • •	• • • • • •	• • • • • • •		La Conne	r, Wash.
Yakima Va	lley Nu	rsery Co.	Inc				Toppenish	Wash.
Agts:	Paul P	Blanchet					.White Salmon	. Wash.
Young & T.	Mark	E. Carrol	1	• • • • • •	• • • • • • • •	· · · · · · · ·	Walla Well	, Wash.
W. D. Your	ng	• • • • • • • • •	• • • • • • • • • • • • • • • • • • •		<i>.</i>	<i></i>	Kennewick	Wash.
G. I. Wibri	ı						Chehalis	, Wash.

REPORT ON FOODS, FEEDS, FERTILIZERS, DRUGS, OILS AND BAKERY INSPECTION

In compliance with the law, I am submitting herewith the second report of the Fourth Division of the State Department of Agriculture, covering the period from August 1, 1914, to and including July 31, 1916, the work of this division embracing foods, feeds, fertilizers, drugs, oils, and bakery inspection.

In the administration of this division, I have endeavored to conduct the work in harmony with the policy of the state administration; that is, to accomplish as much work as possible with the least possible expense.

During the period covered in this report, there were employed in food, feed, fertilizer, and bakery inspection work but one inspector all of the time, and three a part of the time, in addition to myself, and but one drug inspector for the period from August 15, 1914. In oil inspection, there has been but two inspectors all the time, and four a part of the time. The duties of some of the food inspectors and the drug inspector carried them to practically every town and city of any size in the state and covered the inspection of foods and drugs at the factory and in the wholesale and retail establishments, as well as restaurants, hotels, hospitals, doctors' offices, and state institutions.

Inspection was given to grocery stores, meat markets, cold storage plants and all places where food and drug products are offered for sale or stored. The total number of food and drug inspections made during the biennium was 16,604, subdivided as follows: Groceries, 5,088; meat markets, 1,886; butter stores, 1,012; fish stalls, 213; fruit stands, 267; miscellaneous stores and places, 3,435; bakeries, 653; restaurants, 142; vegetable stands, 178; warehouses, 39; cold storage plants, 49; slaughter houses, 98; factories, 26; piers, 24; confectioneries, 83; wholesale groceries, 54; commission houses, 6; drug stores, 2,076; hospitals, 100; soft drink stands, 634; doctors' offices, 500; barber shops, 23; peddlers' stock, 2; state institutions, 16.

In the course of the foregoing inspections, 90,101 packages of foods and drugs, 286,257 pounds of bulk goods, and 15,353 dozen eggs, were found to violate the law and to be unfit for use and were condemned and destroyed.

Reports of these various inspections are on file in the Department. We also gathered and submitted for analyses 675 samples of foods and drugs, and 132 samples of stock feeds, suspected of violating the pure food and drug law, and 205 samples of fertilizers.

In addition to our regular inspection work, we have conducted an educational exhibit and campaign covering a period of five weeks at

four fairs and at the Women's State Federation convention, at Spokane. I feel that this feature of our work has had proportionately as wholesome and beneficial an effect in preventing the marketing of unwholesome food as have the prosecutions brought and the penalties enforced under the pure food law.

In addition to the above educational work, the undersigned addressed the National Convention of Retail Grocers at San Francisco, in May, 1915; the National Convention of Food Control Officials, in August, 1915; the State Retail Grocers' convention at Tacoma, in October of the same year; the State Federation of Women's Clubs, in June, 1915; the Kalama Women's Club, the Wenatchee Women's Club, the Knights of Columbus at Seattle, a meeting of feed manufacturers at Seattle, and numerous retail grocers' and other organization meetings in different parts of the state. These addresses were designed to make the work of this division of the most immediate service to the dealers and consumers in the state and to procure the widest possible public co-operation in the work.

During the biennium the undersigned prepared and issued a bulletin on food and food values, two bulletins relating to stock feeds, and one bulletin covering sanitary regulations, besides codifying and revising the laws and regulations relating to this division.

PROSECUTIONS.

Thirty-two prosecutions for violations of the pure food and drug law were instituted by this division during the above period. They resulted in twenty-six convictions, two dismissals, one because the offender went into bankruptcy and one by the prosecutor without the consent of the division, and two acquittals. Two cases are still pending. The aggregate fines and forfeitures were \$1,590.00, in addition to the value of the foods and drugs condemned and destroyed.

It is the policy of the division to be very careful in the institution of prosecutions. That accounts for our almost uniform success in securing convictions. It is also our policy, when prosecutions are begun and we are satisfied the offense has been wilful and deliberate, to prosecute vigorously and without compromise. I have personally attended and given direction to practically all prosecutions. The division believes that no law is important except as it is enforced.

An unfortunate error on the part of a deputy prosecutor caused considerable trouble. The deputy filed a case in the name of the commissioner of agriculture instead of in the name of the State of Washington. That trouble has been satisfactorily adjusted. In order to prevent a recurrence of such a mistake, we have since drafted and printed in the laws and regulations for this division proper forms of complaints for the guidance of inspectors and prosecutors.

VINEGAR.

During the biennium, we have had some trouble with the enforcement of the regulations relating to vinegar. The state law relating to vinegar conflicts with the federal ruling on the same subject. While the vinegar situation in the state is not ideal, it will compare favorably with that in any state in the Union.

I might say in passing, that I discussed the vinegar situation with many food control officials at the National Food Commissioners' convention at Berkeley, Cal., and all of them agreed that while it was one of the most vexatious problems they had to meet, the keenness of competition between manufacturers was the greatest source of trouble, and that since the life and health of consumers was not involved, the purely commercial nature of the problem robbed it of all dangers to The products of all the large manufacturers of vinegar doing business in the state have been sampled numerous times within the period covered by this report. The territory to inspect is so large and the force of inspectors so small, it has been impossible to give more attention to this item without seriously neglecting items of much more importance and on which the life and health of the public largely depends. We are keeping as close supervision of this matter as our force will permit. Vinegar prosecutions will be brought in every instance where the chemists are prepared to fortify their analysis of adulteration by expert testimony.

CONCENTRATED STOCK FOOD.

The supreme court in a decision handed down in February, 1915, declared the concentrated feed statute unconstitutional because of a discriminatory clause in the act. Realizing the importance of this measure to consumers of stock feeds, I sought to have the last legislature remedy the defect by an amendment. The agricultural committee of the house made a favorable report on the amendment, but the rules committee chloroformed the bill.

After the adjournment of the legislature, I took the matter up with the attorney general's office and was advised that I could afford some relief by enforcing purity of stock feeds under the general pure food law. I issued a general bulletin on March 22, 1915, notifying manufacturers and consumers of stock feeds that the division would enforce the regulations on this subject under the food law.

The manufacturers and dealers generally have shown a very commendable disposition to comply with the regulations contained in that bulletin. We have since then been submitting feed samples for analysis to the state chemists. There has been a steady and pronounced improvement in the stock feeds now being sold.

The constantly increasing price of all valuable materials that enter into the manufacture of stock feeds has brought into use many by-products that were formerly wasted or which were used in their crude state. I recognize their necessity and that their legitimate use is right and proper, but there does not now exist nor should there ever be any necessity for their substitution for the original and nutritious products unless the purchaser has reliable information of their

true character. The only fair and honest way to give this information is to have it plainly marked and described on the label or package.

A few manufacturers of stock feeds resort to the very questionable practice of using misleading terms for the purpose of marketing their by-products and adopt such legends as "dairy feed," "dairy chop," "oat feed," "oat clippings," and "oat by-product," to describe oat hulls, rice hulls, cottonseed hulls, ground corncobs, ground alfalfa, weed seeds, grain screenings, chaff, etc. Then again we find a few manufacturers resorting to the very questionable practice of using very small quantities of some desirable feeding stuffs in their mixtures in order that they may declare their presence on their labels, sacks and invoices, for the purpose of inducing patrons to purchase the feed. This practice is bad policy and is deplored and condemned by reputable manufacturers. Such practices are a violation of the spirit of the law and border closely on a violation of the letter of the law and are bound to hasten the day for the requirement on the label and sacks of the percentage of each and every ingredient in mixed feeds.

While this report is being prepared, I have asked for a meeting of manufacturers, their representatives and dealers in stock feeds, with our state chemists and myself to discuss these matters and lay before them the urgent necessity for co-operation in eliminating these abuses. In any event, I shall urge as a correction, an amendment to the law.

FERTILIZERS.

During the biennium, we gathered and submitted for analysis 207 samples of fertilizers and collected fees for the same amounting to \$1.612.00. The law authorizes the publication of the results of the analysis made. Failure of the legislature to provide the necessary printing fund is the reason that no such publication has been made.

Notwithstanding no publication of the analyses has been made, it is not only just to the division but also to the manufacturers and patrons of fertilizers to state that with few exceptions the spirit and letter of the law are being complied with and only in a few instances were even technical violations discovered. Letters calling attention to the same were promptly acknowledged, with the assurance that the deficiencies would be remedied at once. The patrons of fertilizers suffered a loss in the failure to provide for a bulletin, as they were deprived of valuable information from the use of the same. The scarcity and high price of potash has driven out many brands of mixed fertilizers.

DRUGS.

The drug inspector during the biennium has made 2,076 careful inspections of drug stores, hospitals, doctors' offices, and soft drink stands. His personal report together with brief tabulated reports will be found in connection with the division reports and any extended notice here would be only duplicating the same.

OILS.

The report of the chief oil inspector will be found among the statistical reports with his comments. The report is quite complete and demonstrates that the inspectors have been diligent in protecting the state's interests. The inspector's comments give a brief history of the action brought by the Standard Oil Company attacking the constitutionality of the law pertaining to the collection of fees for oil inspection. The case is now pending on appeal in the state supreme court.

BAKERIES.

During the period covered by this report there were 647 thorough bakery inspections made. These inspections covered condition and quality of materials used, cleanliness and health of employees, and sanitary conditions of all buildings, utensils, walls, floors, sinks, storerooms, and toilets. No certificates were recommended or issued unless conditions at the time justified them. Whenever reinspections were made and they showed the conditions were below the standard demanded, if a certificate had been issued, its surrender was demanded and obtained. While this penalty secured some good results, I am free to admit there were some who paid no attention to its loss. There are some violators of sanitary conditions that can only be reached through the enactment and vigorous enforcement of a comprehensive and effective sanitary statute. We have no such statute now and our power to enforce adequate sanitary regulations is thereby seriously crippled.

STATE INSTITUTIONS.

In connection with our regular duties I have sought to personally inspect all of our state institutions once a year. These inspections disclosed such a commendable condition not only as to food supplies but as to cleanliness also that I was prompted to send a report covering this subject to the State Board of Control. The report was as follows:

OLYMPIA, WASHINGTON, Jan. 16, 1915.

To the Honorable Members of the State Board of Control, Capitol Building,

GENTLEMEN: Feeling that you are deeply interested in the condition of the food supply of the various state institutions, this report is respectfully submitted for your information and consideration.

During the month of December, 1914, and the early part of this month, as occasion permitted in connection with our regular work, we made a general and careful inspection of the food supplies, together with their sanitary surroundings and preparation, of the following institutions:—Northern Hospital for Insane at Sedro Woolley; Reformatory at Monroe; Washington Veterans' Home at Port Orchard; State Soldiers' Home at Orting; Western Hospital for Insane at Fort Steilacom; Eastern Hospital for Insane at Medical Lake; State School for Deaf, and State School for Blind at Vancouver; State Training School at Chehalis; State School for Girls at Grand Mound, and State Penitentiary at Walla Walla. The food supplies at all of these institutions were in excellent condition as to care and quality, with the exception of some canned pears at the State School for Deaf that had started to spoil, a small quantity of lard at the State Soldiers' Home at Orting, which upon analysis, proved to be below standard, and a small bin of barley at the Reformatory, which upon examination, proved to be infested with weevils.

We also made a careful examination as to the cleanliness of all cupboards, bins, store rooms, refrigerators, dishwashing sinks, dairy and bakery utensils and all implements used in the preparation and serving of food. We made a careful sanitary survey of the slaughter houses (where there were any), dairy barns, poultry buildings and runs, piggeries and yards.

With the exception of a little carelessness in the cleaning of some butcher tools a bread mixer and some baking tins, to which the attention of the super-intendent or commissary accompanying us at the time was called, we found the conditions as to cleanliness far above the average encountered in our daily inspection work of private institutions.

The piggeries at Medical Lake, Stellacoom, Walla Walla and Chehalis are ideal, and while some class them as pig pens, they are so modern that they are suitled to be classed as pig parks, and the porkers look so clean and wholesome that one of our inspection force said they looked good enough to eat with the bristles on.

The dairy barns at Medical Lake, Steilacoom, Walla Walla and Chehalis are modern and kept clean and in fine condition. The dairy barn and piggery at 8edro Woolley, while kept as clean as their old and tumbled-down condition will permit, could not be passed as sanitary. New farm buildings are sadly needed there. The dairy barn at Monroe is under the horse barn, and while the dairy part of the barn is concrete and modern in other particulars, there are some sources of danger that will increase, for the reason that the floor of the horse barn above is made of wood. There is grave danger of seepage. I would suggest coating the wood with some impermeable material.

Special sanitary precautions should be exercised not only in the production but care of milk, as it is one of the most active conveyors of disease among our food products.

We carefully enquired about the physical condition of the various food animals and were pleased to be assured that with two exceptions, the animals in which were under careful observation and care, they were all in a healthful condition.

While the slaughter house at Stellacoom is kept in first class condition, the hide and tankage rooms should be separated from the killing room by partition walls and outside ventilation provided.

We were received courteously and every possible facility was shown us in making our inspections, and our advice was not only welcomed but actively sought on many questions of sanitation and care of foods by the various officers who accompanied us in our inspections.

In a few instances we were informed by officials that, had they known we were coming, they would have been ready for us. We assured them our policy was to come unheralded and that we preferred to meet them in their every day clothes.

In conclusion I believe that I would be remiss in my duty if I did not take this opportunity officially and personally to congratulate you and through you the officials who are responsible for the excellent conditions existing in connection with the food supplies of our state institutions. It demonstrates such a commendable, conscientious and humanitarian discharge of duty that it makes is feel proud of our state and the present administration of its public institutions.

The general conditions are so far superior to what we frequently discover among public purveyors and caterers of food in our daily rounds that they are specially worthy of mention.

Yours very truly,

J. J. HIGGINS

SANITATION.

Notwithstanding the fact that we have been seriously handicapped through lack of a proper statute, we have invariably given close atten-

tion to and sought to promote sanitation and cleanliness in all places inspected. Realizing the importance to the people of the state of clean as well as pure food, we have endeavored to make the best use of the force and statutes at our command.

FAILURE TO SECURE LEGISLATION.

I very sincerely regret to inform you that none of the four measures submitted by this division to the last legislature was favorably acted upon. The two bills submitted to the senate received favorable action by that body. All the bills were favorably reported upon by the house committees to which they were referred, only to be finally chloroformed by the house rules committee.

INSPECTORS.

While our force of food and drug inspectors has been inadequate to cover all the ground, by using deputies in other branches of the work to assist in food and drug inspection and by devoting considerable time myself to this work, we have managed to cover much of the necessary ground, but anything like reasonable service to the state demands at least one additional food inspector.

While on this subject, I desire to bring to your attention the faithful and efficient services of the inspectors. They have been, in most instances, capable of determining by their own examination of the product whether it complied with the requirements of the law. Therefore but a relatively small percentage of the foods and drugs condemned and destroyed were sent to the state chemists for analysis. A casual perusal of the tabulated statements of the work done but inadequately conveys a just conception of their actual duties.

Their principal business is looking for trouble, and naturally, as the reports show, they found quite a lot of it. The inspectors, to be successful, must have the ability to thoroughly familiarize themselves with the actual conditions as they exist and explain the law's requirements. They must be firm but courteous, and when possible gain and maintain the respect of the inspected party.

It is a great pleasure to me to be able to commend not only the faithful and intelligent efforts of my inspection force, but also to recognize the loyal, helpful, and expert work of our state chemists. I feel I would be remiss in my duty if I did not publicly express my grateful acknowledgment not only for the help they have given me in conscientious discharge of their duties, but as well for their intelligent initiative in matters having for their object the promotion of the work of the division for the greater benefit of the people.

KILLED WHILE IN DISCHARGE OF STATE DUTIES.

It is with deep and sincere regret that I mention the loss to the division, as well as to the state, of Profressor Elton Fulmer, one of the state chemists, and I. J. Minnick, an inspector, who were both

killed in a railroad collision at Cheney, Wash., on February 20, 1916, while returning from the discharge of their duties in conection with a pure food prosecution at Walla Walla, the day previous.

Professor Fulmer had been actively and continuously connected with the pure food work of the state from its beginning in 1894 until he met his untimely end. To his foresight and initiative can be credited many of the improvements in pure food regulation, not only in the state but in the United States as well. He was generally recognized as one of the most capable and able instructors and chemists in the country, and as a man of strong convictions and rugged and unfinching honesty. His untimely end was generally regretted and mourned.

Mr. Minnick was connected with the State Department of Agriculture from its organization, and had been with this division less than a year at the time of his death. He was a man of unquestionable integrity and a faithful and capable inspector. His uniform courtesy and genial manners made friends of all with whom he came in contact.

NEEDED LEGISLATION.

In calling attention to needed legislation, I will not attempt to give a detailed outline of the legislative measures or an elaborate explanation of their need. I will briefly name the measures and make a short statement of what appears from my experience to be the principal necessity for their enactment.

AMENDMENTS TO FOOD AND DRUG ACT.

The present law is so general in most of its requirements that it is impossible to bring about some needed reforms. It should be so amended as to give the enforcing officers power to lay down rules and regulations establishing certain standards for various products that need standardizing. Our state supreme court has ruled that where such authority is given by the legislature it is legal and binding. The weights and measures clause of the food law should be amended to conform with the federal act. The drug section should be amended so as to include the Shirley amendment of the national food and drug act, which reads as follows:

"An article shall be deemed to be misbranded, in the case of drugs, if its package or label shall bear or contain any statement, design or device regarding the curative or therapeutic effect of such article or any of the ingredients or substances contained therein, which is false or fraudulent." Our present food and drug law was a practical duplicate of the federal law at the time of its adoption, and these amendments are in line with further uniformity.

GENERAL SANITATION.

One of the state's most imperative needs is the enactment of a comprehensive sanitary law. Cleanliness is the foundation principle for the safeguarding of life and health. The battle for pure food has

made great progress in the past twenty-five years, but its teammate, cleanliness, has been sadly neglected. A great many of our foods that are chemically pure are sanitarily unfit to eat. In brief the best and purest foods may become and often do become so contaminated by filthy surroundings and handling that they are often more dangerous than the vilest adulterations that prospered in the balmy days prior to pure food legislation. The sanitary laws of Indiana, Colorado. Illinois, Kansas and Iowa are suggested and recommended as suitable models for a Washington statute. The enforcement of a sanitary law can be conducted by the food and drug inspectors without any substantial increase in expense.

SLAUGHTER HOUSES.

There is serious and urgent need of a law giving the State Department of Agriculture supervision over slaughter houses in this state. This measure should empower the Department to lay down strict sanitary regulations and be enforced under a license system that would produce sufficient revenue to carry the expense of its en-Present conditions in many of the slaughter houses in forcement. the small communities are vile and insanitary beyond description. In many instances the houses are located on the banks of small streams or creeks. Frequently the offal is thrown in these streams and then water for washing the meat is dipped from this foul source. Practically the only washing meat gets it receives at the slaughter houses. Cattle and hogs suffering from various stages of tuberculosis are not infrequently slaughtered for public consumption at these places. Food animals suffering from all manner of diseases are slaughtered and shipped to the towns and to various cities that are not protected by local inspection laws. The floors, walls, tables, and tools used at these slaughter houses show but little evidence of the use of water. The yards, pens, and runways are seldom cleaned. Blood and manure are caked on the walls and floors. One butcher was asked what they did with sick and injured animals. He smiled and answered, "What do they all do with them?"

The federal authorities thoroughly inspect all animals slaughtered for interstate business as well as the surroundings and slaughter houses. If the government deems such work a necessary health precaution for interstate business, why should our local and rural slaughter houses be allowed to run as they see fit?

REGULATING THE SALE OF EGGS.

The last legislature passed an act classifying and regulating the labeling and marking of eggs. The statute upon legal test has been found faulty in many particulars. California and Oregon legislatures passed statutes of similar nature and the supreme courts in those states have declared those statutes unconstitutional. I have caused several arrests under our state statute and two of the cases are now pending on appeal. There is no question that legislation regulating the sale of eggs is desirable and necessary. We will be pleased to

give the friends of this class of legislation the benefit of our experience in remedying the defects in the present statute.

COLD STORAGE.

There is great need of regulation of cold storage. During the biennium we have found large quantities of cold storage products that had been held for upwards of two years and when discovered were in an absolutely dangerous condition. The owners were prosecuted and fined.

Many states have in successful operation statutes relating to cold storage. The effect of those statutes is often to induce storage plant owners to hold such products close to the time limit and then ship them to states not similarly protected. The question of proper cold storage control is absorbing the attention of food officials and the public today as never before. Cold storage is an economic necessity. It is not the use but the abuse of cold storage that legislation should seek to correct. There is a limitation to the life and wholesomeness of cold storage food. Speculation in food supplies is being permitted in many instances to overwork the economic value of cold storage. This measure should be enforced under a license system.

In the matter of needed legislation I have sought to recommend only such matters as my experience has taught me to believe absolutely necessary, and that combine two essentials, namely: the greatest good to the greatest number, and the least possible expense in their enforcement. I earnestly urge their consideration and adoption. I have now in course of preparation bills covering each of them.

COMPENSATION FOR CHEMISTS.

In justice to the state chemists they should receive some compensation for their state food and drug analytical duties. The work frequently requires their attention on Saturdays and during vacation periods, as well as burden of irregular hours when rendering services as expert witnesses.

DIVISION BULLETINS.

During the biennium we have issued a number of bulletins relating to foods and feeds. This is by far the most economical method of bringing to the manufacturers, merchants, and the public such information as is a necessary guide and assistance in the enforcement of the various acts. The reason more work of that nature has not been done is the lack of a sufficient printing fund.

BRIEF STATISTICAL REPORTS.

On account of the limited printing fund, only brief statistical reports of the various acts enforced under this division will accompany this report. The detailed inspection reports are on file in the Department and can be consulted by the public at any time.

Very respectfully submitted,

J. J. HIGGINS.

Ass't. Commissioner in Charge of the Fourth Division.

FOODS CONDEMNED AND DESTROYED.

Canned Goods.	Cans
Asparagus	. 12
Beans Salmon Halibut	. 91 . 66,634
Halibut Crab Meat	. 13 . 54
Herring	. 86
Sardines	. 70 . 25
Clams Fish, miscellaneous kinds	. 111
Meats	. 153
Soup	. 34 2304
Saller Krallt	. กห
Clam Nactar	947
Condensed milk	. 194
Total	. 71,040
Bottle Goods.	Bottles
Cataun	1 500
Pickles	. 659
Catsup Pickles Olives Salad dressing Distilled winger	. 411 . 291
Distilled vinegar Horse radish Jams	. 84 . 64
Jams	. 8
Danner sense	. 400
Worcester sauce	. 27
Mustard	. 230
Worcester sauce Chili sauce Mustard Peanut butter	42
Total	. 3,775
Package Goods.	Pac ka ge s
Breakfast cereals	. 179 9 235
Dried currants	. '239
Total	. 10,009
Bulk Products.	Pounds
Dry codfish	16,800
Brick codfish	278 14 500
Frozen Halibut	8,350
Dry codfish Brick codfish Frozen Salmon Frozen Halibut Salt salmon Assorted Frozen fish Frozen Finnan haddie Salt berring	1,100
Frozen Finnan haddie	630 600
Boiled crabs	653 2,785
Salt pork	2,186
Ham and bacon	86% 22
Dressed turkeys	2,608
Dressed chickens	7,659 840
	60
Dressed ducks	2 000
Oressed ducks Corn starch Soda	2,000 200
Dressed ducks Corn starch Soda Shredded cocoanut Walnuts	2,000 200 700 2,073
Assorted Frozen fish. Frozen Finnan haddie Sait herring Boiled crabs Fresh beef, liver and sausage. Salt pork Ham and bacon. Lard Dressed turkeys Dressed chickens Squabs Dressed ducks Corn starch Soda Shredded cocoanut Walnuts Peanuts	2,000 200 700 2,073 222,940
Dressed ducks Corn starch Soda Shredded cocoanut Walnuts Peanuts Total	

FOOD SAMPLES ANALYZED.

Kind	Fin	dings	Total
Alcohol (Grain)	. 2		. 2
Alcohol (Wood)			. 1
Baking powder			. 24
Baking powder		lllegal	. 24
			. 11
Candy		Legal	. 3
Cider			. 2
Clams			_
			2
Checoleta (grouped)			
Chocolate (ground) . Codfish			
Codfish		Illegal	. 4
Crab	7	Illegal	. 7
Dressing (salad)	4	Legal	
Dressing			_
		2040,1141	. 6
	54 18		
Extracts			. 75
Eggi			
Eggs		Illegal	. 10
Flour	<i></i>	3 Legal	
Plour			25
Fruitene Grapefruit			. 1
Grapefroit			5
Grapefruit Hamburger Hamburger			
Hamburger	2	2 Illegal	4
rioney	18	B Legal	18
Horseradish			
Ice cream powder			1
Jelly Jelly		B Legal 2 Illegal	60
Jam	2	2 Legal	00
Jam		B Illegal	5
Lard		3 Legal	
Lard	1	1 Illegal	_
Lard			5
Meat (fresh)			9
Meat (mince) Chickens (cold s	torage) 5		2 5
Turkeys (cold st	rage) 4	Illegal	4
Squah (cold store	ge) 2	2 Illegal	
Milk (condensed)		l Legal	
Milk (condensed)	12		23
Olive oil			14
Ull (salad)	1		
· Campia	1	I Illegal	1
Pickles (dill) Preserves	1	1 Legal	ī
Preserves		l Legal	_
1 1686LA68			3
Kice Salmon	20	1 Illegal	1
Salmon	46		
Maimon		8 Doubtful	104
Nausage	1		1
Sauces (condiment)		2 Legal	2
Soups (Conditional)		2 Legal	2
OY FUN		3 Legal 6 Illegal	29
Sugar (manle)		2 Legal	2
Sugar (maple)	49		_
· · · · · · · · · · · · · · · · · · ·	4 1	1 Doubtful	
lhegar	11	1 Illegal	101
Water (mineral) Walnuts		l Legal	1
Walnuts		8 Legal 1 Illegal	. 4
Whiskey		1 Illegal	:: 3
Wine (Port)		2 Legal	∷ 5
	_		
		Total	602

STOCK FEEDS ANALYZED.

Stock	feeds										35	Legal Illegal	
Stock	feeds							٠.		•	8	Legal unofficial	
Stock	feeds										6	Misbranded	
Stock	feeds										3	Doubtful1	32

FOOD PROSECUTIONS.

- No. 570—State of Washington vs. Cudahy Packing Co. Charge: Having in possession adulterated poultry. Fined \$250 and costs. Paid.
- No. 571—State of Washington vs. Western Meat & Fish Co. Charge: Having in possession adulterated poultry. Plead guilty. Fined \$100 and costs. Paid.
- No. 572—State of Washington vs. Morris & Company. Charge: Having in possession adulterated poultry. Fined \$250 and costs. Paid.
- No. 2507—State of Washington vs. General Market Co. Charge: Having in possession adulterated food. Canned saimon. Fined \$100 and costs. Paid.
- No. 2508—State of Washington vs. General Market Co. Charge: Misbranding food products. Canned salmon. Fined \$50 and costs. Paid.
- No. 2506—State of Washington vs. Christian Querin. Charge: Selling adulterated food. Canned salmon. Fined \$250 and costs, appealed and settled in Superior Court. Fine Paid.
- No. 2506—State of Washington vs. James Harris. Charge: Selling adulterated food. Canned salmon. Fined \$100 without cost. Paid.
- No. —State of Washington vs. Everybody's Market. Charge: Selling misbranded goods. Fined \$10 and costs. Paid.
- No. 2856—State of Washington vs. Oscar Lucks. Charge: Selling adulterated food. Fined \$50 and costs. Paid.
- No. 2857—State of Washington vs. Chas. W. Treve. Charge: Selling misbranded butter. Fined \$25 without costs. Paid.
- No. 2858—State of Washington vs. Johnson, Lieber & Van Bokkelen. Charge: Selling adulterated food. Fined \$50 and costs. Paid.
- No. 2987.—State of Washington vs. Rhodes Brothers. Charge: Selling misbranded extracts. Plead guilty. Fined \$25 and costs. Paid.
- No. 120—State of Washington vs. L. B. Mercdith. Charge: Selling misbranded butter. Filed bond in the sum of \$25 and forfeited same.
- No. 121—State of Washington vs. H. E. Dahlin. Charge: Selling misbranded butter. Filed bond in the sum of \$25 and forfeited same.
- No. 23—State of Washington vs. E. Rassmussen. Charge: Selling adulterated food. Fined \$25 and costs. Paid.
- No. 151—State of Washington vs. Walter Burton. Charge: Selling adulterated food. Fined \$25 and costs. Paid.
- No.—State of Washington vs. Wm. Leo, Jr., Charge: Selling adulterated vinegar. Fined \$25 and costs. Paid.
- No. —State of Washington vs. Tacoma Meat Co. Charge: Selling misbranded lard. Case dismissed by prosecutor because defendants were in bankruptcy.
- No.—State of Washington vs. C. C. Irwin. Charge: Seiling misbranded lard. Acquitted.
- No.—State of Washington vs. Pacific Oil Mills Co. Charge: Selling adulterated peanuts. Case pending in Superior Court.
- No. 3337—State of Washington vs. J. P. Marshall. Charge: Selling adulterated vinegar. Plead guilty. Fined \$25 without costs. Paid.

- No. 3496—State of Washington vs. Geo. O. Brehm. Charge: Selling storage eggs without properly branding same. Fined \$5 and costs. Paid.
- No. 3495—State of Washington vs. John Layton & Co., and Geo. L. Jones. Charge: Selling Chinese eggs without properly branding same. Case pending on appeal.
- No. 4116—State of Washington vs. Hemphill Bros. Charge: Having adulterated food in possession. Plead guilty. Fined \$50 without costs. Case pending on appeal.
- No. 4151—State of Washington vs. McRae & Branigan. Charge: Having adulterated food in possession. Plead guilty. Fined \$25 without costs. Paid.
- No. 4152—State of Washington vs. Augustine & Kyer. Charge: Having adulterated food in possession. Plead guilty, Fined \$25.
- No. State of Washington vs. Schallinger Produce Co. Charge: Selling adulterated food. Court ordered same destroyed.
- No.—State of Washington vs. Yakima Products Co. Charge: Offering for sale adulterated vinegar. Acquitted.
- No.—State of Washington vs. Harrah Bros. Charge: Having adulterated food in possession. Plead guilty. Fined \$25.

DRUG PROSECUTIONS.

- No. 4132—State of Washington vs. Fred Heipp. Charge: Selling misbranded hair tonic. Case dismissed by Prosecutor Lundin without state's approval.
- No. 3661. State of Washington vs. G. H. Guy. Charge: Selling misbranded salad oil. Plead guilty. Fined \$25 without costs. Paid.
- No.—State of Washington vs. Edwin Clark. Charge: Selling misbranded cough syrup. Fined \$25 and costs. Paid.

BAKERY INSPECTION.

Bakeries Inspected:
Graded as very good 19 Graded as good 226 Graded as fair 181 Graded as poor 68
Reinspections
Certificates issued
Total

BAKERY INSPECTIONS.

Aberdeen 7 Auburn 5	Chehalis 7
Audurn	Cheney 2
Arlington 2 Anacortes 5	Centralia
Dalliant	Chewelah 2
Bremerton	Concrete
Buckley	
Bismarck	Camas 4
	Cle Elum 3
Black Diemond	
ovulen 1	Cathlamet 1
Cashmere 1	Chelan 2

Clear Lake 1	Port Angeles 4
Dayton 2	Port Orchard 2
Davenport 2	Port Townsend 4
Everett 14	Prosser 2
Endicott 1	Pullman 2
Ephrata 1	Puvallup 4
Ellensburg 2	Raymond 2
Elma 2	Renton 4
Enumclaw 2	Ritzville
Edmonds 2	Rosalia 1
Ferndale	Roslyn 2
Fern Hill 1	Seattle
Garfield 1	Seaview 1
Granite Falls 1	Sedro Woolley 4
Gold Bar 1	Sequim
Goldendale	Shelton 1
Hillyard	Snohomish
Hoquiam 4	South Bend 2
Hartford 1	Spangle 1
<u></u>	Sprague 1
	Spokane
	Stanwood 2
andca tittititititititi	
ileibo illininininininini	20, 1101011
	Sultur :
	Trumber
	Edita, Blac VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Leavenworth 1	Tacoma 62
Dynach	Tekoa 1
Mabton 1	Tenino 1
Marcus 1	Toledo 1
Marysville 1	Tolt 1
Monroe 1	Toppenish 2
Montesano 1	Vader 1
Mount Vernon 7	<u>Valley 1</u>
Newport 1	Vancouver 2
North Yakima 4	Waitsburg 2
Oakesdale 2	Walla Walla 4
Odessa 1	Washougal 2
Okanogan 1	Washtucna 1
Olympia 5	Wenatchee
Oroville 1	Washougal 2 Washtucna 1 Wenatchee 2 White Salmon 2 Wilkeson 2 Winlock 3
Orting 1	Wilkeson 2
Palouse 3	
Parkland 1	Yacolt 1
Pasco 1	
	Total

Many shops of the type of "home bakeries" which were too small to be classed as regular bake shops were also inspected by this division.

In practically all of the shops where needed improvements were ordered made, a reinspection has revealed a marked improvement in the shop conditions.

The bakery inspector also acted in the capacity of assistant food inspector, and in addition to the 522 bake shops inspected, has inspected 4,582 food distributing establishments of various kinds other than bakeries.

DRUGS. Official Samples Taken and Analyzed.

Kind	No.	Findings
Alcohol		
Corn remedy		
Colic cure		
Spirits camphor Tinc. Iodine	12	Iegal
Tinc. Iodine		
Extract lemon	1	Legal

Kind	No.	Findings
Dyspepsia remedies	1	Legal
Essence peppermint	1	
Spirits nitre	2	Illegal
Spirits nitre Headache remedy	4	Legal
Headache remedy Headache remedy Cough remedies Cough remedies	1	Illegal
Cough remedies	1	Legal
Cold remedies	į̃	
Cold remedies	2	Legal
Sweet oil	1	Legai
Catarrh cure	1	Legal
Oil wintergreen Peroxide hydrogen		Legal
Hair tonic	1. 1	Illegal
Soda water	3	Illegal
Total	55	
10001		
	DRUGS.	
Goods Destroy	ed and Walvers Ta	ken.
	· · · · · · · · · · · · · · · · · · ·	
	. 	89
Pharmaceuticals		101
Tinctures		84
Cold and grippe cures Catarrh cures		306
Cough cures		264
Colic cures		400
Blood cures		327
Children remedies		$ \begin{array}{ccc} & 10 \\ & 255 \end{array} $
Dyspepsia cures		208
Fever cures		77
Kidney cures		266
Laxatives		265
Rheumatic oils		16
Maives		61
Tonics		500
Finer chemicals		72
Heavy drugs		46
Tablets, filled capsules	s, etc	43
Earache medicines	• • • • • • • • • • • • • • • • • • • •	••••
Total		5,277
Cotton absorbent		43 Lbs.
Bandages		20 "
FEI	RTILIZERS.	
		red
•	s Taken and Analy	
Anacortes		6 24
Everett		2
Portland, Oregon		40
Seattle		60 40
North Yakima		
Tacoma		8
Walla Walla		6

ANALYTICAL FEES FOR FERTILIZERS COLLECTED.

Aabling-Boyce Co., Seattle	\$ 36	00
American Pacific Whaling Co., Bay City	48	00
Balfour Guthrie Co., Seattle	48	00
S. Blachley, Colton	18	00
Carstens Packing Co., Tacoma	120	00
Empire Packing Co., Spokane	72	
Frye & Company, Seattle	30	
W. R. Grace & Co., Seattle		ŏŏ
James Henry, Seattle	36	
Idaho Lime Co., Spokane	18	
Inland Seed Co., Spokane		ŏŏ
Jacob Kaufman, Spokane	36	
Chas. H. Lilly Co., Seattle	288	
National Potash and Iodine Co., Bremerton	18	
Portland Seed Co., Portland	258	
		ŏŏ
Nitrate Agencies Co., Seattle	24	
Robinson Fisheries Co., Anacortes		
Russia Cement Co., Anacortes	24	
E. H. Stanton Co., Spokane	60	
Seattle Seed Co., Seattle	24	
Sylvester Brothers, Victoria, B. C		00
Union Meat Co., Portland, Ore	306	
Walla Walla Meat Co., Walla Walla	60	
Western Fertilizer Co., San Francisco, Cal		00
Yakima Meat Co., North Yakima	12	00
Total	.612	00

REPORT OF DRUG INSPECTOR.

J. J. Higgins, Olympia, Washington.

Dear Sir: I submit a report of my work during the past two years, starting August 15, 1914, and ending July 31, 1916.

We have tried to reach every drug store and place where drugs are sold throughout the state, and excepting some general stores in isolated places, and of which we have no record, have done so at least once—some twice—and in the cities and where special reasons demanded as many as four times each year.

At the time the present inspector started, there were upon the shelves of stores, several thousand bottles and packages of so-called patent medicines, which were all misbranded and many spoiled at the time the pure food and drug act took effect. These preparations were all put up in wrapped packages or cartons, making it very difficult to ascertain the condition of the medicine without destroying the package. However, the law gives each dealer the right to dispose of such in the ordinary course of trade. Some of them were upon the shelves as far back as 1898, and had become eye sores, and instead of trying to dispose of them, shoved them to the back of the shelves. Your inspector took the view that in so far as no reasonable effort had been made to dispose of them, they would stay for many more years.

Many stores had changed owners two and even more times and a few of the new owners were even trying to obtain new labels and wrappers to hide the age and then offer for sale or ship out of the state. As many of our poor are compelled to depend upon these prepared remedies, your inspector deemed eight years a reasonable time in which to have disposed of them. I opened many packages and

found those containing volatile substances to have shrunk by evaporation, thus spoiling the entire package, or making the dose stronger, which in some cases was very dangerous.

From this showing of condition I have condemned and destroyed a large number of packages. This in many cases was a heavy loss to the druggist and shop keeper, but nearly all willingly gave them up. There are yet a few stores which have some such packages on hand, which they decline to destroy, but we are keeping a watch on them and will destroy them as soon as we find they violate the law.

As the drug stores carried most of the drugs, former inspectors paid most attention to them, until they were in very fair condition, but had not reached the country merchant on the cross roads who also carried drugs to supply the neighboring farmers and the country doctor when he came by. We have tried to reach this class of stores and during the past year have located and inspected about four hundred and taught them how to keep their drugs. We also have reached as many doctors' offices as we could find time, as some of them carry their own supply of drugs and with their limited knowledge of such are an easy victim of the smooth salesman who sells an inferior line. Some were kept in the most horrible condition, and were passed out indiscriminately and no record or prescription made of such sale whereby we or the patient could know if they were getting harmful drugs or not.

By courtesy of the state board of pharmacy, who made your inspector a deputy of their board, he was able to insist that such conditions be remedied and a proper record kept. While your department gets no particular credit for it, we have been able to furnish to the board a list of these shop keepers who sell drugs and enable them to collect the six-dollar license fee charged.

The State of Washington has thereby profited by many thousands of dollars annually by our work and the Department of Agriculture should receive some credit for the same. I believe all such license money should be paid through this Department, as we are the only ones giving the dealers any benefit from our inspections.

Wherever time would permit, I have visited soft drink establishments and caused owners to clean up their floors, fountains, glasses in which drinks are served, and taught them how to keep their fruits and syrups in clean and sanitary conditions, and have forced manufacturers to label artificial drinks on the sides of bottles instead of the caps which are removed when sold to the customer.

I have inspected every hospital, whether public or private, which I could find, and have insisted upon them keeping their drugs in a fresh, clean condition so the patient was sure of getting pure drugs.

We have had several bad fires in stores or near them so that stocks of drugs were saturated with dirty water. It has taken considerable time to go over each package and ascertain if they came in contact with filth or whether the water mixed with chemicals had changed the preparation into another compound or lessened the

strength of it. This work does not show up for the time expended, and every food and drug establishment should be compelled by law to report to the Department every fire in their establishment, so an inspector could look over the stock before it is again offered for sale.

I find the lack of a sanitary law a very heavy drawback, as places where the stocks are chemically pure are sometimes in a very filthy condition.

I also find I very often waste as much as six and eight hours sitting on a depot platform waiting for trains which could be utilized to very much better advantage, and believe the legislature should supply automobiles to all inspectors the same as most all wholesale houses do their men; if it is cheap for them, it surely should be cheap for the state.

We have taken samples of various kinds of preparations and have made analysis of same and find that more care is being used in the manufacture of preparations, and by cautioning the dealers to make only an amount which would last a short time, there would be less liability of change from temperature and light, as in most every illegal sample the discrepancy was caused by temperature.

Respectfully submitted,

E. L. JONES.

Drug Inspector.

OIL INSPECTOR'S REPORT.

In submitting to you our second biennial report, you will note we date from July 1, 1914, to June 30, 1916.

During these months we have endeavored to secure inspections of all the oils shipped to the state under our jurisdiction and enforce the law pertaining thereto. We have not found this a difficult task, since there is a better understanding upon the part of oil vendors relative to inspections and the reasons therefor. We have with great care urged the matter of proper labeling and branding of barrels, packages and all other receptacles as provided according to law, so that this part of the work has been very satisfactorily done.

Two years ago we called your attention to a handicap relative to certain weaknesses of the law under which we were operating. We noted then as now, that while we have a minimum of Fahrenheit degree for illuminating oils there is no provision for a maximum, and that there is no standard of Baume for gasoline, benzine and distillate. While it is our duty to inspect these products for gravity, we are compelled to issue a certificate of inspection regardless of what we find. It is true, however, we have some recourse in the matter of branding the same and requiring the dealer to sell according to the gravity given by the oil inspector.

In December, 1914, with the assistance of Mr. Charles S. Gleason, an assistant attorney general, we drew up an amendment to the present law strengthening several of the weak points therein, the object of which was to secure for the public a better quality of oils and to require a more careful branding and stamping, as there had

been a number of complaints that poor illuminating oil was being placed upon the market. Several accidents had occurred through a lack of proper labeling of oil and gasoline in cans and other receptacies. In one instance, through the mistake of using gasoline for kerosene in building a fire, the wife and two children lost their lives and the house in which they were living was totally destroyed by fire, and an effort was made in this amended bill to cover all receptacies containing either, by proper labeling, or in case of bottles the using of stickers.

This bill was prepared and placed before the proper committee during the last legislature and was passed out with recommendation for passage. An effort, however, was at this time made upon the part of certain interested parties to also create a law for the inspection of crude oil, commonly called fuel oil, and the committee thereafter, thinking it would be better to insert the inspection of crude oils and by-products into one bill, did so and succeeded by so doing in killing both bills, and, as you are well aware, we have been operating under the old law and the only one ever enacted in the State of Washington. There should be a better and stronger law enacted giving the oil inspector larger scope and a little more power to enforce certain provisions of said law. There should not only be an inspection law for kerosene, gasoline, benzine, and distillate, but also covering the inspection of lubricating oils, Toppings and other byproducts of petroleum. Our inspection laws have proved invaluable to the public in general. Our interview with wholesalers relative to these matters has resulted in a better quality of oils now coming into the state than at any other time in recent years. Owing to the high Price of gasoline there has been some disposition upon the part of certain dealers to mix the same with distillate, which necessarily makes an inferior quality and, therefore, sells cheaper; but we are glad to report this practice has practically ceased throughout the entire state.

Relative to the enforcement of the law, we have not found it necessary to file complaints for the selling of oils without their first having been inspected, except in one instance and that suit is still pending.

About the first of September, 1915, the Standard Oil Company brought suit against the state attacking the constitutionality of the law pertaining to the collection of fees. In this suit the right of the state to have an inspection law was admitted without question.

The suit was brought first in King county and afterward transferred to Thurston county, and was argued before Judge Wright in November, and the judge overruled the demurrer of the state. The standard Oil Company wishing to amend its complaint, the case was again argued on February 7, 1916, and on the 24th day of March light Wright again overruled the demurrer of the state to the supended complaint. The case has been appealed to the supreme fort, and in the meantime your oil inspector is continuing in the

discharge of his duties and inspecting all oils coming into the state, furnshing certificates and keeping as nearly as possible correct record of the same.

In this report you will observe that from September, 1915, to June 30, 1916, we do not include collections of fees from the Standard Oil Company, this company having paid same into the registry of the court, which up to that date amounts to approximately \$43,279.54. All the other companies have gone on as usual and paid their inspection fees, and the amount has passed through the hands of the commissioner into the general fund of the state. Therefore, in our tabulated statement we shall consider the portion of our report relating to the Standard Oil Company as somewhat incomplete, the matter having passed entirely out of our hands, and we have been compelled to depend upon the attorneys of the Standard Oil Company for such gallonage and fees as has been turned into the court, save the fact that we have kept as close a check on the gallonage as has been possible so to do in the existing circumstances.

Below you will find a tabulated statement of gallonage and fees, with the exception of the Standard Oil Company herein mentioned, as taken from our books, the monthly reports of which have been placed in your hands, and, I believe, have so far been found correct. We have endeavored to faithfully discharge our duties, do all the work pertaining thereto with diligence and watchful economy, and feel in submitting this report that nothing has been left undone that we should have attended to, so far as is known to us.

Respectfully submitted,

S. P. WILSON, State Oil Inspector.

Monthly Oil Inspections, Together With Fees for Inspections, From July 1, 1914, to June 30, 1916.

191	l 4 .	
	Gallons.	Fees.
July	3.304.375	\$6.608 75
August	3.093,940	6.187 88
September	2.055,930	4,111 86
	3,874,380	
November	3,213,300	6,426 60
December	3,516,335	7,032 67
191	15.	
January	1,883,255	3,766 51
February	1,797,690	8.595 38
March	3.038.310	6.076 62
April	4,210,460	8,420 92
May	3,208,580	6.417 16
June	3,839,255	7.678 51
July	2,220,460	4.440 92
August	4,444,730	8,889 46
September	1.458.595	2.917 19
October	867,890	
November	1,025,635	2,051 27
December	691,515	1,383 03
19:	16.	
January	804.930	1.609 86
February	612,615	1,225 23
March	1,005,200	2,010 40
April	1,176,765	2,353 53
May	867,890	1.740 37
June	1,009,173	2,018 34
June	1,000,110	2,010 04
	53,188,578	\$106,377 16

AMOUNT OF INSPECTION FEES DEPOSITED WITH CLERK OF COURT AT OLYMPIA IN SUIT OF STANDARD

OIL CO. VS. GRAVES ET AL.

	TACOMA	OMA	SPOR	BPOKANE	SEATTLE	TLE	PORTLAND	AND
	Oil in Gallons	1 488	Oil in Gallons	26	Off in Gallons	Fee	Oll in Gallons	Fee
September, 1915 October, 1915 October, 1915 Documber, 1915 Documber, 1915 January, 1916 February, 1916 March, 1916 Mary, 1916 June, 1916 June, 1916 Totals	610,000 292,316 464,290 483,020 566,886 566,886 506,886 891,616 625,488	#1, 220 00 #84 68 #82 56 963 04 1, 113 73 894 80 1,016 77 003 25 1,250 98	78, 560 \$114, 106 288 21, 105 105 105 105 105 105 105 105 105 105	2017 2017 2017 2017 2017 2017 2017 2017	2,404,685 1,667,315 1,667,316 2,082,208 1,466,000 1,466,000 1,218,088 1,218,088 1,218,088 1,218,088	\$4,800.88 \$1184.68 \$184.68 \$85.72 \$85.72 \$1,196.72 \$1,966.27 \$1,468.66 \$4,468.66 \$4,468.66	254,970 172,826 173,075 118,027 111,00,730 106,585 97,131 111,250 121,218	200 94 244 65 254 65 252 45 25 253 65 253 65 254 65 255 65 256 656 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 656 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 656 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 656 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 656 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 656 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 656 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 656 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 656 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 656 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 656 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 656 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 656 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 656 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 65 256 256 65 256 256 256 256 256 256 256 256 256 2

Grand Total—Gallons, 21,639,783. Fees, \$43,279.54.

SEED LABORATORY REPORT

The following is the report of the Seed Laboratory during the past two years, from July 1, 1914, to June 30, 1916, inclusive:

The law provides for:

- (1) The inspection of commercial seed in the markets of this state.
 - (2) The enforcement of the law and penalties for violation.
- (3) Proper labeling of agricultural seeds sold in lots of one pound or more.
- (4) That seed offered for sale in this state must be free from the seeds of wild mustard or Charlock, quack grass, Canada thistle, wild oats, dodder, and corn cockle.
- (5) The free testing of seeds for any resident of the state who is going to use the seed himself.

OFFICIAL INSPECTIONS.

The number of inspections made in the past two years during the seed season were five hundred and fifty-two (552). The principal cities and towns of the state, numbering seventy-one (71), have been visited and all seed markets inspected.

In most cases the seed dealers are very kindly disposed to the inspection of their stock and are glad to know of ways of bettering seed conditions.

Marked improvement is noticeable in the quality of seed carried by dealers. Through the enforcement of the seed law and the increasing demand of farmers for better seed, dealers are forced to carry better grades than a few years previous.

Progressive farmers today are insisting upon seeds of high test, and are also obtaining samples from their dealer to have tested before purchasing, thereby eliminating risk of seed not being as represented.

The greatest difficulty has been experienced with dealers of other states who sell to dealers of this state. Whenever possible such dealers have been notified that seed shipped into the state by them must comply with the law, and copies of the law have been sent to them. The refusal of seed which does not conform to our standards, by the dealers of the state, has done a great deal to remedy this condition.

Another difficulty, which not only works a hardship on the seed dealer trying to comply with the law, but also is a detriment to better seed conditions, is the fact that farmers, who do not appreciate the value of good seed, are buying seed from their neighbors. The seed as a rule is just as it comes from the field, uncleaned, and contains a large percentage of foul seed. Frequently complaints come in from dealers of certain localities where such conditions exist.

The present law makes no provision for the regulation of such seeds as are sold by the farmer direct to the consumer.

Table No. 1.—Source of Samples	, Number and	Kind of Test I	Made.
--------------------------------	--------------	----------------	-------

SAMPLE SENT BY	Number of Samples	Identifi- cation	Exami- nation	Purit y	Germina- tion	Total Tests
Individuals	47	21 7	49 20	64 42	66 60	200 129
Inspectors	795	28	649 718	239	235	891 1,220

PROSECUTIONS.

On December 10, 1914, the Chas. H. Lilly Co. were found guilty of violating the pure seed law, having sold alsike clover below the standard of purity. They were required to pay \$100.00 as damages, and to furnish one hundred pounds of new seed to purchaser.

May 29, 1916, State of Washington vs. Aabling & Boyce. Charge. Selling five (5) pounds alfalfa containing dodder. Fined \$10.00 and costs. Paid.

LABELING.

One of the important provisions of the law is that of labeling seed. All seed offered for sale in the state must be labeled either "Standard" in accordance with those set forth by law or with the per cent of purity, specifying the kind and per cent of impurities, provided they are below the standard prescribed by law.

The method of labeling is left with the wholesaler so long as it meets the requirements of the law. Some stencil the sacks; others attach tags to them. A very commendable method which some dealers have adopted is that of sending a duplicate copy of the purity and germination report with the shipment of seeds. These methods are not only good advertising but a great help to the purchaser.

THE SEED LABORATORY.

The Seed Laboratory is equipped with practically the same apparatus that is used in all the seed laboratories of the U.S. Department of Agriculture.

It consists of a seed mixer and sampler, a Sartorius balance, also a Henry Troemner balance, a vertical air-blast separator, a nest of fine perforated brass sieves, two standard germinating chambers. These germinators are equipped with automatic regulators which keep a constant temperature, representing natural conditions as nearly as possible.

The object of the Seed Laboratory is to give correct information concerning seed. If every farmer would make use of the Seed Laboratory and avail himself of the opportunity of having seed tested before using it, dealers would be forced to carry the best grades, and poor seed would be taken from the markets. (Tests are made free of charge for farmers.)

THE SEED LAW.

Washington is one of twenty-seven states having a specific seed law. Others are Idaho, Iowa, Kentucky, Maine, Maryland, Michigan,

Minnesota, Montana, Nebraska, New Jersey, New Hampshire, New York, North Carolina, North Dakota, Ohio, Oregon, Pennsylvania, South Carolina, Tennessee, Vermont, Virginia, West Virginia, Wisconsin, and Wyoming.

All seed analysts connected with the U. S. Department of Agriculture, with any state, agricultural experiment station, or agricultural college are organized into an association which convenes every year. Uniformity of seed methods and ways of bettering seed conditions are discussed at these meetings.

A uniform state seed law is under construction and it is hoped in time that a uniform law as well as uniform methods of testing . will be used in all states.

The Washington seed law has been found very applicable in most cases. During the session of legislature in 1915, Section 3055, R. & B., requiring the year in which seed was grown to be plainly marked on each package of vegetable seed, was amended. It was found impossible to enforce it, as seed is contracted from so many growers and so much of it is imported that correct information could not be obtained.

The amended section now applies to the germinable viability of vegetable seed, giving minimum standards for the different species of vegetables. This amendment has proven a success, as it can be complied with by seed merchants.

The seed law protects farmers and other purchasers of seed against poor seeds containing noxious weeds and seeds that are of low vitality. It also provides a protection to the conscientious dealer and enables him to sell better qualities of seed.

SUBMITTING SAMPLES.

Samples of seed submitted to the laboratory for a test should be a fair sample of the lot from which it is taken in order that the results will be accurate and will show the true character of the lot being examined. If the seed is in sacks, bags, or bins, the sample should be taken to represent the top, bottom, and middle of the container. A good handful is large enough for a sample of most seeds.

They should be carefully sealed in an envelope and sent to the Department. A letter should accompany the sample advising kind of test desired, giving name of seed, and the name and address of the sender. Tests are made on the receipt of same and results mailed as soon as possible.

PURITY TESTS.

When a sample of seed is received it is given a laboratory number which marks all recording data and envelopes used in filing this sample of seed. It is then put into the seed mixer and sampler to obtain a representative sample of the lot submitted. The sample is next weighed accurately, after which separations are made by hand and by means of an air-blast separator. A nest of sieves also greatly facilitates a seed test. The separations are then weighed and percentages worked out, giving the per cent of pure seed, per cent of

inert matter, and per cent of foreign seed. The results are placed on the record card. Each lot of foreign seed is correctly named and entered on the card together with the number found. The report sent out to the individual gives the common names of weeds and the approximate number per pound of each weed seed found. Patience and skill are required in identifying the seeds of weeds and commercial plants.

The following table gives the standards set forth in the Washington seed law for grains and forage seeds:

STANDARDS OF PURITY AND VIABILITY OF AGRICULTURAL SEEDS.

	Per Cent	Per Cent	of
Name of Seeds	of Purity	Germinable	Secd8
Alfalfa (Medicago sativa)	96	80	
Barley		-90	
Blue grass, Canadian (Poa compressa)		45	
Blue grass, Kentucky (Poa paratensis)	80	45	
Brome, awnless (Bromus inermis)	90	75	
Buckwheat	96	90	
Clover, alsike (Trifolium hybridum)		75	
Clover, crimson (Trifolium incarnatum).		85	
Clover, red (Trifolium pratense)	92	80	
Clover, white (Trifolium repens)		75	
Corn, field (Zea mays)		94	
Corn, sweet	99	75	
Fescue, meadow (Festuca pratensis)		85	
Flax (Linum usitalissimum)		89 85	
Millet, common (Setaria italica)	90	85	
Millet, hog (Panicum miliaceum)		65	
Oats (Avena sativa)		90	
Oat grass, tall (Arrhena therum aven)	79	70	
Orchard grass (Dactylis glomerata)		70	
Rape (Brassica rapa)		90	
Redtop (Agrostic alba)	90	70	
Rye (Secala cereale)		90	
Rye grass, perennial (Lolium perenne)		90	
Rye grass, Italian (Lolium italicum)	95	80	
Sorghum (Andropogon sorghum)		80	
Sorghum for fodder	90	60	
Timothy (Phleum pratense)	96	85	
Wheat (Triticum)		90	

GERMINATION TESTS.

It is equally as important to know that seeds are of good vitality as to know that they are free from noxious weeds. Seed may be very high in purity and yet be low in germination qualities. A test for germination is therefore necessary. Very often the leguminous seeds, such as alfalfa, red, white and alsike clover, contain a large per cent of hard seeds. They have very hard seed coats which moisture can not penetrate. They remain the same during the entire test. Hard seeds in any amount are disappointing and should be avoided. A good standard is impossible unless the seed all germinates at the same time.

They have the same appearance as good seed. If the seed coat can be scratched in some way they will germinate in the required time.

Simple methods of germinating seed may be used for most seeds in the home. Count one hundred seeds of grain or two hundred of

small seeds, such as the clovers, and place them between double thicknesses of Canton flannel or blotting paper. Put them between dinner plates and keep moist but not wet. Keep in a room of ordinary temperature of about seventy degrees.

Table No. 3.—Giving Seed Bed, Temperature and Length of Time Used In Testing the Germination of Forage Crop Seeds.

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GERN	ATNA	THON	TAB	LE.

KIND OF SEED	Seed Bed	Temperature	Length of Time
Alfalfa	Between blotters	68° F.	5 days
Barley	Between blotters	68° F.	6 days
Brome grass	Between blotters	68°-86° F.	10 days
Buckwheat	Between blotters	68°-86° F.	5 days
Clover, red		68° F.	5 days
Clover, alsike		68° F.	5 days
Clover, white		68° F.	5 days
Corn		68°-86° F.	5 days
Cow peas		68°-86° F.	8 days
Flax		68°-86° F.	6 days
Millet		68°-86° F.	5 days
Oats		68°-86° F.	5 days
Orchard grass	Between blotters	68°-86° F.	14 days
Rape		68° F.	6 days
Rye		68° F.	5 days
Red top		68'-86° F.	10 days
Sorghum		68°-86° F.	6 days
Timothy		60° F.	5 days
Wheat		68° F.	5 days
Kentucky blue grass			,
	under bell jar	68°-86° F.	28 days

Table No. 4.—Giving Seed Bed, Temperature and Length of Time Used in Testing the Germination of Vegetable Seeds.

GERMINATION TABLE.

		=====	
KIND OF SEED	Seed Bed	Temperature	Length of Time
Asparagus Beans Beets* Cabbage Cauliflower Carrots Celery Citron Cucumber Endive Lettuce* Muskmelon Onion Parsley Parsnip Peas Pepper Pumpkin Radish Salsify Spinach Squash Tomatoes	Between blotters Cloth Between blotters Between blotters Between blotters Between blotters Between blotters Top of blotter Top of blotter Top of blotters Between blotters Between blotters Between blotters Between blotters Between blotters Cloth Between blotters Cloth Between blotters Between blotters Between blotters Cloth Between blotters Cloth	68'-86' F.	14 days 6 days 10 days 6 days 6 days 14 days 6 days 6 days 6 days 7 days 8 days 6 days 6 days 6 days 7 days 6 days 14 days 6 days 10 days 10 days 6 days
Turnip Watermelon	Between blotters Cloth	68'-86' F.	6 days

^{*} Soak six hours before test is started.

EDUCATIONAL WORK.

Educational work has been carried on in the way of exhibits at various fairs throughout the state. In September, 1914, the Walla Walla Fair and the State Fair at North Yakima were attended. In September and October of 1915 the State Fair at North Yakima and the Pierce County Fair at Puyallup were attended.

STATE SEED EXHIBIT.

The seed exhibit consists of numbers of herbariums of weed seeds, four large manifold screens, containing mounted weed specimens with samples of seed of each and information attached giving injury and remedies for eradicating these pests; two large glass cases containing exhibit jars of commercial seed, both field and vegetable; colored plates of weeds with appended notes attached giving means of eradicating each; six dozen varieties of weed seeds mounted in cotton to bring out distinguishing features; attractive colored posters; also placards giving classification of weeds.

A part of the seed exhibit was shown at the Panama-Pacific Ex-Position at San Francisco in 1915.

SEED TESTS.

A Standard germinating chamber was exhibited showing laboratory method of giving seed the germination test. Home methods of Serminating seeds were shown, giving ways farmers can test seed at home. Although simple, these methods are not generally known.

Comparative purity tests were given, showing the difference between good and bad seed, bringing out the importance of buying good seed rather than cheap seed. Farmers are surprised as a rule to know that a few cents more or less can make such a difference in the quality of the seed.

Farmers have manifested increasing interest each succeeding year in the exhibit, particularly in becoming familiar with weeds and means of eradicating them, also with poisonous weeds, such as camas, wild parsnip and various others which are dangerous to stock.

. WEED TRIPS.

The Department receives occasional requests to visit ranches to locate and identify poisonous plants which have killed livestock. Several trips of this kind were made. In one instance five thoroughbred cattle died from the effects of wild parsnip. Stockmen should be familiar with poisonous weeds—at least the most common ones—as they often suffer great losses due to them.

FOREIGN AND NOXIOUS WEEDS.

Foreign and noxious weed seeds are very often present in the ous agricultural seeds. They not only reduce the quality of seeds

but a great deal of damage is done to the crop. By sowing clean seed this can be avoided.

If farmers really knew the great losses due to weeds they would make more of an effort to eradicate them and would buy good grades of seed.

Canada thistle is perhaps one of the worst pests in the state. It is a perennial and has very deep running rootstocks and is a vigorous grower. The nature of the plant makes it hard to eradicate. Wherever the rootstocks are broken they send up new shoots. Being a deep-rooted plant, Canada thistle should be plowed deep in summer just as the flowers open. As new shoots appear they should be cut down. Persistent effort will eradicate Canada thistle. The seed often occurs in grasses and clovers and in seed oats.

Though insignificant in appearance, dodder seed is a very formidable enemy to the farmer. It is a pernicious parasitic plant and is often called "love vine" from the nature of its clinging qualities. The tiny vine grows from the seed until it can find a plant to cling to. It then sends little root-like suckers into the neighboring plant and breaks away from the seed in the ground, obtaining its nourishment from the plant. It is a tiny thread-like vine having no leaves, which spreads from branch to branch until it has formed a thick mass covering large areas. Dodder bears white blossoms and is a gross seeder, bearing approximately more than a million seeds per pound. Clean cultivation and burning are the best remedies for eradication. Dodder is found in alfalfa and clover seed. Commercial seeds containing Canada thistle or dodder are prohibited for sale in the seed markets. As a consequence both are somewhat under control and are gradually disappearing. The law cannot be enforced too stringently in prohibiting the sale of seeds containing noxious weeds.

The following table shows some of the most common weed pests and the approximate number each bears per pound:

COMMON NAME SCIENTIFIC NAME Number of Seeds 1,814,360 Dodder Cuscuta spp... Plantain Plantago major..... 1,814,360 604,786 Lamb's quarters Chenopodium album..... Canada thistle Oarduus arvensis..... 566,987 Plantago lanceolata..... Buckhorn 348,915 Russian thistle Salsola tragus..... 266,817 Wild mustard Brassica arvensis..... 215,955 Chaetochloa viridis..... 206,177 Green foxtail

Polygonum convolvulus.....

Agrostemma githago.....

Bull thistle

Wild buckwheat

Corn cockle

Quack grass

174,457 137,148

119,305 45,359

TABLE NO. 5.

TABLE NO. 6.—RESULTS OF PURITY TESTS.

		Z	F.	PURE SEED	Ð	INE	INERT MATTER	TER	FOR	FOREIGN SEED	SED
KIND OF SEED	Stand- ards	ber of Tests	High- est Test	low.	Aver- age Test	High- est Test	Low- est Test	Aver- age Test	High- est Test	Low-	Aver- age Test
(Medicago s	8.8	28	99.9	85 25.	86.50	1.40	0.40	0.8	6.24	0.02	0.57
nada (Poa tucky (Po	8888	10	88.88	88	88	10.73	0.60	8	1.	0.10	0.91
come, awaises (brontes inernie) lover, alskie (Trifollum hybridum). lover, red (Trifollum prateinse)	388	18	8.8 8.8	8.3	91.06	2.2	0.10	0.76 0.88	22.15 15.08	0.19	3.00
Bet .	888	18	98 54.53	8.28	97.19	8	0.10	88.	7.40	0.30	2.3
× -	888	: i,	8								
and Caretta Sariva. The Caretta Sariva. The Caretta Sariva. The Caretta Sariva.	828	- 8 -	8 88 8 88 8 88	98 98	8.8	9.45	1.75	83.	8.80	1.96	6.76
sativa)	88 8	1	98.98 97.98								
Kye grass, perennal (Lonum perenne) Rye grass, Italian (Lollum italieum) Sorghum (Andropogon sorghum) Timothy (Phleum pratense)	8888	80 64 8g	98.98 99.28 99.68	929 888	96.15 97.14 97.92	838	0.58	82.40 82.93	2.10 14.90	0.85 0.16 0.05	0.98
Vbeat (Tritleum aestlyum)	9 2			:	:	:	:	:	:	:::::::::::::::::::::::::::::::::::::::	:

TABLE NO. 7.—RESULTS OF GERMINATION TESTS.

					-			
Made By MAZA	7					PER	PER CENT. OF HARD SEEDS	OF De
AIND OF SEED	arde	of Tests	High-	Low-	Aver-	High-	Low- est	Aver-
			Test	Test	Test	Test	Test	Test
	8	;	9		3		1	1
Alfalia (Medicago Sativa)	38	3 -	3.5	3.5	8 8	8		10.73
Dalley (100 tul) vugata, vugata, Bliperass, Canadian (Poa compressa)	3 15	•	3	3				
Bluegrass, Kentucky (Pos pratensis)	.3	6	8	8.9	43.00			
Brome, awnless (Bromus Inermus).	13		8.8			-		
	12	12	35. 26.	3.8 8.8	87.40	27.00	5.50	12.53
red (Trifolium pre	8	4	8.8	90.08	88.38	8.8	8.	14.51
	22	12	8.38	74.00	81.73	8.8	9.00	19.75
=	\$:::::::::::::::::::::::::::::::::::::::		:::::::::::::::::::::::::::::::::::::::		:		:
Corn, sweet	12	-	100.00				:	:
Millet, common (Seteria italica)	88	-	95.50		:::::::::::::::::::::::::::::::::::::::	:::::::::::::::::::::::::::::::::::::::		:
Oats (Avena sativa).	8	00	100.00	8.9	_			:
Orchard grass (Dactylis glomerata).	2	90	98 93:26	8	99.±.		:	:
Rape (Brassica rapa)	8:	:				:		:
Redtop (Agrostis alba).	2	61	84.50	11.50	_			:
Vetch, spring (Vicia sativa).	:	61	8	8	82.50			:::::::::::::::::::::::::::::::::::::::
Vetch, winter or hairy (Vicia villosa)		_	25.00	:::::::::::::::::::::::::::::::::::::::				:
Rye grass, perennial (Lollum perenne)	8	-	8.8					:
Rye grass, Italian (Lollum Italicum)	8	:		:			:::::::::::::::::::::::::::::::::::::::	:
Sorghum (Andropogon sorghum)	8	6 1	88 25	8.	86 53			:
_	88	8	8.8	28.00	8 5			:::::::::::::::::::::::::::::::::::::::
Wheat (Tritlcum aestivum)	8	62	8.20					

11	- !	Sorghum, Sudan grass	1		64
i	۰,	Т етсћ			
6	3	Tymothy			න හ 61
SEEDS.	01	Redtop			
	•	etaO	2	5	
¥		Millet	l aa		<u> :::::::::::::::::::::::::::::::::::</u>
Ž	•	Grass. Orchard	5	3	04 H
AGRICULTURAL	3	Grass, Kentucky blue	ONIMBER OF THE COCKIERING		61
S. E.	2	Grass, Italian 170	E		
∢ Z	•	Grass, English rye	0	3	
	-	Grass, Ognadian blue	AB.		
SEEDS	2	Clover, white	5	2	61
	ই	Олочет, теф			
FOREIGN :	28	Clover, Alsike			
K :	_	Barley			
	52	alialiA			9 9 20 10 00 11
NG THE OCCURRENCE OF		£4 ○ 55	SEEDS	Соштоп Лаше	Three-seeded mercury Yarrow Rettop Cocktep Cocktep Tumbling amaranth Rough pigweed Ragweed Ragweed Ragweed Ragweed Ragweed Ragweed Ragweed Ragweed Ridney vetch Thyme leaved sandwort Saltbush Wild oats + Oats Winter cress Winter cress Winter cress Winter cress Winter cress Winter cress Soft chess
TABLE NO. 8.—8HOWING	Number of Samples Twated	NAMES OF	FOREIGN SEEDS	Scientific Name	Acalypha virginica Achillea millefolium Agroetema githago Alsine Media Amranthus greeskans Amaranthus refreskans Amaranthus retrofkevus Ambroeia artemisiaef. lis Anthemis avensis Anthemis votus Anthemis votus Anthemis votus Arther serpylifolia Arthipex sp. Avena fatua Avena fatua Avena fatua Avena fatua Barbara vulgaris Branus leareliuus Bromus leecalitus Bromus lorrdaeceus Bromus horrdaeceus Bromus lorrdaeceus Bromus lorrdaeceus Capeella bursa-pastoris Canelina sativa Canelina sativa Canelina sativa

Seeds—Continued.
Agricultural
Seeds in
f Foreign
Occurrence of
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Table

179 4 88 104 68 1 6 5 48 6 1 4 2 48	Alfalfa Barley Clover, Alsike Clover, white Grass, Canglish rye Grass, Kentucky blue Grass, Millet Grass, Carass, Kentucky blue Grass, Millet Grass, Orchard	NUMBER OF TIMES OCCURRING	weed 17 1 8 2 2 2 1 1 1 1 8 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Samples Tested.	NAMES OF	FOREIGN SEEDS Common Name	Bull thistie Sedge Russian knapwe Star thistie Mouse-ear chick Yellow foxtali Millet * Green foxtali Lamb's quariers Fremont's good Oxeye daisy Onlooy Poison hemiock Hare s-ear must Dodder to Orchard grass Wild carrot Orchard grass Barnyard grass Ranal crab-grass Barnyard grass Familed willow Aflaria Spurge
Number of Samples Tested	NAMI	FOREIG	Carduus lanceolatus Carax sp. Centaurea picris Centaurea salettrialis Certaturea salettrialis Certaturea salettrialis Certaturea salettrialis Certaturea salettrialis Certaturea salettrialis Chactochio stratica Chactochio stratica Chactochio stratica Chactochio a viridis Cheropodium farontii Chrysanthemum leucanthemum Configura farontii salettrialis Confirming or centralis Confirming or centralis Confirming or centralis Confirming conference Dagitaria humitusa Explobium panieulatum Explobium panieulatum Explobium panieulatum Explobium panieulatum Explobium panieulatum Exploritum deutarium Exploritum deutarium Exploritum panieulatum Exploritum deutarium Exploritum panieulatum Exploritum deutarium Exploritum deutarium

Table No. 8.—Showing the	Number of Samples Tested	NAMES OF	FOREIGN SEEDS	Scientific Name	Geranium dissectum Geranium pusilium Geranium pusilium Geranium pusilium Heliantinas annus Holeus lanatus Holeus lanatus Juncus tenuis Lepedium campestra Lepedium draba Lepedium draba Lepedium draba Lepedium rirginicum Lepedium rirginicum Lepedium rirginicum Lepedium rirginicum Lepedium rirginicum Lepedium draba Lolum perenne Lolum perenne Lolum perenne Lolum corniculatus Malva sp. Letos Medicago lupulina Medicago sativa Medicago sativa Nepect cataria Nepect cataria Nepect cataria Panicum capillare Panicum capi
Occurrence of	Tested		ED8	Common Name	lowered crane's bill. lowered crane's bill. Discless In an interest and the state of the stat
Foreign	170	Alfalfa			2 11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	88	Barley Clover, Alsike			
-	104	Clover, red			2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
₹	2	Chover, white	2	2	
grice	-	Grass, Canadian blue	Y.		
Seeds in Agricultural		esertő evi delien:	NIMBER OF TIMES OCCUBBING	; :	
		Grass, Italian 17e			
Seeds-Continued.	3	Grass, Kentucky blue Grass,	l g	2	
ဦ ပို	•	Orchard	CIT		
tin	_	Millet	RING		
èd.	02	Redtop	_	_	
!	\$	Timothy			94 44 4
	20	Vetch			
_	•	Sorghum, Budan grass			

Table No. 8.—Showing the Occurrence of Foreign Seeds in Agricultural Seeds—Continued.

S Silder, Tabolo S 1 44 24 1 64 20 4 11 1 64 20 4 1	A Suffer Nove Nove Nove Nove Nove Nove Nove Nove	A Great, Poly Constituting the constraint of the constitution of t	Orchard Orchar	Orchard Name of Cares, Cares of Cares o	Grees, Orchards Type Orchards
	Chass, Constitution of the set of	The state of the s	Occinent of the service of the servi		od dotpeat
		φ brand Orenard ω ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο	c saaro o o o o o o o o o o o o o o o o o o		od dotpeat

Agricultural seeds.

Seeds-Continued.
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Seeds in
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-Showing the
Table No. 8

		•		: ! '-			- 1	; :	}		1	1	1	;	1
Number of Samples Tested.		170	88	ន្ទ	2	-	9	•	3	•	<u> </u>	-	\$	10	•
NAMES OF	# O 83	Alfalfa	Clover, Alalke	Clover, red	Clover, white	Grass, Osnadlan blue	Grass, English 17e	Grass, Italian 176	Grass, Kentucky blue Grass,	DIRIBIO	tellibe staO	Redtop	Thmothy	Төсей	Sorghum, Sudan grass
FOREIGN SEEDS	N SEEDS		į	.'		- 	j	.I 		1	-	-	-		
Scientific Name	Common Name				N D	(BE	S OF	NUMBER OF TIMES OCCURRING) 83	XOUR	RING	rh.			
Spergula arvensis Stellaria media Syntheriama intearis Syntheriama intearis Syntheriama sanguinalis Thisolium synthem Trifolium internatum Trifolium interna	Spurry Common chickweed Small trab grass Grab grass Field pennycress Glover Crimes clover Red clover Tow hop clover Whate clover Whate clover Wheat show to clover Wheat show to clover Wheat show to clover Wheat show to clover Mender nettle Gorn salad sp. Meth mullein Oorn speedwell Thynne-leaved speedwell	N 27 1	, , , , , , , , , , , , , , , , , , ,	9 - 4					04						<u> </u>

Pure seed is a most important factor in successful farming. If the annual losses caused by weeds on the farms in the state were calculated the amount would be found alarming.

The enforcement of the pure seed law is doing a great deal to prevent the spread of noxious weeds through seeds offered for sale. Were the weed laws observed more stringently it would be a great benefit to the farmer. Farmers and legislators should co-operate to control these pests. Land is too high priced to be allowed to be robbed of its productiveness by weeds.

It is discouraging to buy clean seed and to spend time preparing the seed bed only to find the land infested with weeds from the roadside and vacant lots near by.

The Department welcomes and gives careful consideration to all suggestions received that may have a tendency to increase its usefulness in fighting the foul seed problem.

Requests for seed tests and inquiries as to seeds and plants should be addressed to the Seed Laboratory, Department of Agriculture, Olympia, Washington.

Respectfully submitted,
KATHERINE G. STONE,
State Seed Analyst.

WASHINGTON STATE FAIR

Hon. H. T. Graves, Acting Commissioner of Agriculture.

Sim: I have the honor to submit to you herewith a resume of the Washington State Fair for the years 1915 and 1916, together with suggestions for the betterment of the institution during the forthcoming biennium.

The Legislature of 1915 appropriated \$35,000.00 for the 1915 and 1916 State Fairs. Of this amount approximately \$10,000.00 was expended for equipment, repairs and permanent improvements—the principal items for which are as follows: Construction of mezzanine floor, woman's rest room, plumbing, bandstand, railings and exhibition booths in the Horticultural Building, wiring and equipping same with electric lamps, constructing one livestock barn, 50 by 250 feet, one livestock barn 50 by 235 feet; one-half of the cost of the latter being paid for by the Cascade International Stock Show, constructing an addition to the swine exhibits shed, 80 feet in length, constructing an addition to the hospital—thereby doubling its capacity, installing show cases in the Woman's Building, building booths in the Child Welfare Building and installing nursery in same, building exhibit and demonstration booths in the Machinery Building for the accommodation of the Children's Industrial Department, repairing Grandstand and rearranging boxes in same, building new fences, cutting down mound in center field, which was an obstruction to the view of the races, rebuilding stalls in horse barn, reroofing Poultry Building, repairing roofs on other buildings, plumbing, painting and papering cottage, wiring grounds and buildings and equipping completely with nitrogen and mazda electric lamps, painting Horticultural, Woman's, Children's and Machinery buildings, purchasing fire extinguishers, agricultural implements and office furniture and fixtures. and also making innumerable small repairs.

The construction of the livestock barns was made necessary on account of a fire having occurred during the Summer of 1915, which completely destroyed two of the old ones and seriously damaged another; the cost of the repair of which figures as a part of the expenditures noted above. The larger of the stock barns contains four rows of stalls and accommodates twice as many cattle as the old one did. The other new barn is not equipped with stalls, but is used for stock judging purposes.

The 1915 Fair was a success in every particular, and it was the verdict of many who were in a position to know that it was the best ever held upon the grounds up to that time.

The 1916 Fair was larger and better than that of 1915, except possibly the livestock department. With the exception of the exhibition of dairy cattle, exhibits in every department exceeded those of

1915, and notwithstanding the additional space afforded by the construction of the mezzanine floor in the Horticultural Building, it was full to overflowing with horticultural, agricultural and manufactured exhibits. The same may be said of every other exhibits building. In addition to this, the grounds were well filled with exhibits of various kinds, shown under canvas furnished by the exhibitors. A marked increase in the number of agricultural exhibits from the various counties of the state is noted. For the first time a Boys' and Girls' Camp composed of industrial teams from the different counties, was conducted with great success, which in connection with the children's exhibit afforded one of the best features of the Fair. The Child Welfare Exhibit, in conjunction with which was conducted a Day Nursery, was also an innovation which was well received.

While the attendance at the 1916 Fair exceeded that of 1915, it was disappointingly small, and it seems as though the interest in the Fair by many of those living in North Yakima and the Yakima Valley is not as manifest as it should be. The same may also be said of some of the breeders of dairy cattle, residing in the valley, whose herds were conspicuous by their absence this year. Whether these conditions were caused by the superabundance of work on hand, occasioned by the lateness of the season, or whether it is on account of the annual livestock show, which was instituted in North Yakima last year, dividing the interest of the business men and stock raisers, is a matter of conjecture. Nevertheless the financial statement shows a goodly balance on the right side of the ledger.

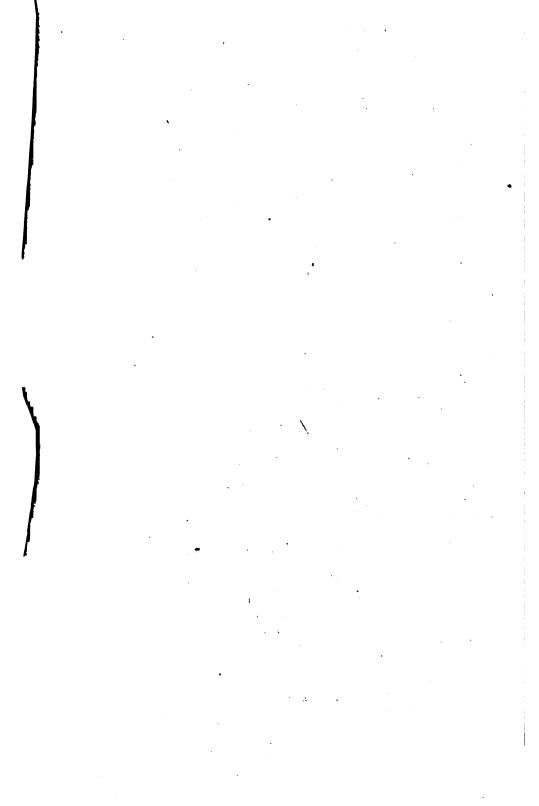
Several of the buildings are old and inadequate. Especially is this true of the Grandstand and also the Machinery Building. It is imperative that the Grandstand be replaced by a new structure before another Fair if racing is to be continued as one of the features. A building to house the children's exhibits is also badly needed. Other buildings will have to be provided with new roofs and painted. There will also have to be a great deal of new fencing built in place of that which is rotting out.

The State Fair should be the show window of the state, and in order to make it such each county should be represented by an exhibit of its products. That adequate means may be provided to defray the expenses of such exhibits, a law should be enacted empowering county commissioners to appropriate sufficient means out of the general fund of the county for that purpose. Thus it would enable those counties lying remote distance from the Fair to exhibit their products, and thereby assist in making it state wide—as the name implies. The result would be far reaching, and help to build up the Fair until it would be second to none in the Pacific Northwest and the pride of every resident of the state.

Respectfully submitted.

FRANK MEREDITH,

Secretary-Manager.



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NINTH ANNUAL REPORT

OF THE

State Bank Examiner

OF THE

STATE OF WASHINGTON



DECEMBER 31, 1915

BY
W. E. HANSON
State Bank Examiner

OLYMPIA, WASH.

FRANK M. LAMBORN DUBLIC PRINTER

1916

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ROSTER OF THE BANKING DEPARTMENT.

W. E. HANSON, State Bank Examiner	.Olympia
FORREST I. GILL, Deputy State Bank Examiner	.Olympia
W. G. HALL, Deputy State Bank Examiner	.Spokane
C. S. Moody, Deputy State Bank Examiner	Seattle
R. A. LANGLEY, Special Deputy State Bank Examiner	.Olympia
MISS R. GEE, Secretary	.Olympia

STATE BANKING DEPARTMENT.

STATE OF WASHINGTON.

OLYMPIA, WASH., December 31, 1915.

Honorable Ernest Lister, Governor of the State of Washington, Olympia:

Size: In accordance with section thirty-eight (38), chapter two hundred twenty-five (225), of the Session Laws of the State of Washington for 1907, I have the honor to submit herewith the ninth annual report of this department, which exhibits the condition of two hundred seventy-five (275) state banks and trust companies, and eight (8) trust companies not acting in a banking capacity, operating in this state at the close of business at date of last call, November 10, 1915.

NINTH ANNUAL REPORT OF THE STATE BANK EXAMINER.

During the year 1915, five reports were asked for and made to this department; on the same dates reports were made by the national banks to the Comptroller of the Currency, to-wit: March 4th, May 1st, June 23d, September 2d and November 10th.

During the year, seven state banks were organized and authorized to do business by this department. There were three consolidations, one bank nationalized, six liquidated and two failed.

During the year, three hundred fifty-nine (359) regular examinations were made, according to law, of state banks and their branches and trust companies, including those that are doing a banking business, as well as those doing exclusively a trust business. For these services, fees were collected amounting to \$15,297.28. The fee is \$25 for each examination and 1-200 of 1 per cent. of the deposits at the date of examination.

A number of changes were made in the banking laws of the state at the last regular session of the legislature, the principal changes being as follows:

Allowing state banks and trust companies to subscribe for and carry as an asset on their books, stock of the Federal Reserve Banks.

The law governing reserve requirements was changed from 20% on demand liabilities to 15% on all deposits.

The trust company laws were amended, permitting national and state banks to do a trust company business—the national banks to first obtain permission from the Federal Reserve Board and the state banks to obtain permission from this department.

The Negotiable Instruments Act was amended in regard to the presentment and payment of demand instruments on Saturday afternoon. No reference is now made in the act to Saturday afternoon, and all instruments of all kinds can now be presented and paid at any time on Saturday, without liability on the part of the payer.

A Mutual Savings Bank Act was passed, providing for the organization of mutual savings banks. No applications have been made for the organization of a bank under this act, at this writing.

One additional deputy examiner was provided for and the law governing the examination of banks was amended. The law now provides for the collection of examination fees for each complete examination. With the addition of one more deputy examiner, we are able to make at least one regular examination of each institution under the supervision of this department, every ten months. Mr. C. S. Moody, of Burlington, was appointed Deputy State Bank Examiner, on June 12th, complying with the law governing the appointment of deputy bank examiners.

An Insolvent Bank Act was passed, providing that insolvent banks should be liquidated through this department.

On the 19th day of July, this department took charge of the affairs of the First International Bank of South Bend, Washington, and placed Mr. Roy A. Langley in charge as Special Deputy State Bank Examiner, to assist in the liquidation of the institution. The process of liquidation has been very slow and difficult on account of all of the good assets of the bank being hypothecated as collateral for the obligations of the bank; also on account of the fact that the bank had been a borrower of collateral to hypothecate for its obligations. The very poor financial condition of the community has also been another difficulty to contend with. The expense in connection with the liquidation has been kept to the minimum and will be greatly reduced as soon as all claims have been filed and the affairs placed in such shape that they can be handled in this office, by this department.

The following is a copy of the statement of the affairs of the First International Bank of South Bend, according to the books of the bank at the close of business on July 17th:

RESOURCES.			LIABILITIES.	
Due from banks:			Deposits subject to check \$52,089	82
State Bank of Seattle	\$11	56	County deposits 52,429	
Puget Sound State Bank,	V		Savings deposits 25,716	
Tacoma	5	81	Postal savings deposits 1,963	10
Mercham ts National Bank,			Demand certificates of de-	
Portland	31	16	posit 14,367	
Crocker National Bank,	ora		Time certificates of deposit. 23,876	
San Francisco Continental and Commer-	256	V4	Cashier's checks 843 Certified checks 57	
dai National Bank,			Pacific State Bank, South	50
Chicago	56	93	Bend 7,723	50
Capital National Hank.	•	•	2024 11111111111111111111111111111111111	U
Olympia	426	03		
Dank Of California, San				
FT8DC1em	252	34		
owedish American Rank				
St. Paul	121	00		
Northern Bank & Trust Co., Seattle	16,104	00		
(424 Off Brand	138			
Cash items on hand	133			
- ou nand	100	٠.		
•				
•	\$17,537	71	\$179,067	26
Loans and discounts (in	\$17,537	71	\$179,067	26
Loans and discounts (in			• •	
Loans and discounts (in loans and discounts (by	\$17,537 72,972		Capital stock 50,000	00
Loans and discounts (in bank) Loans and discounts (hy- potherness)		16	• •	00 46
Loans and discounts (in bank) Loans and discounts (hy- pothectated) Real extension	72,972	16 20	Capital stock 50,000 Surplus fund 7,838 Interest received 8,431 Exchange received 1	00 46 39 04
Loans and discounts (in bank) Loans and discounts (hypothecated) Real estate loans (in bank) Real enters	72,972 71,305 7,029	16 20 15	Capital stock 50,000 Surplus fund 7,838 Interest received 8,431 Exchange received 1 Rent received 300	00 46 39 04 00
Loans and discounts (in bank) Loans and discounts (hypothecated) Real estate loans (in bank) Real estate loans (hypothecated)	72,972 71,305 7,029 26,664	16 20 15	Capital stock 50,000 Surplus fund 7,838 Interest received 8,431 Exchange received 1 Rent received 300 Mill acceptances 22,057	00 46 39 04 00 96
Loans and discounts (in bank) Loans and discounts (hypothecated) Real estate loans (in bank) Real estate loans (hypothecated) Overdrafts Bank butter	72,972 71,305 7,029 26,664 16	16 20 15 00 77	Capital stock 50,000 Surplus fund 7,838 Interest received 8,431 Exchange received 1 Rent received 300 Mill acceptances 22,057 Bills rediscounted 6,000	00 46 39 04 00 96 00
Loans and discounts (in bank) Loans and discounts (hypothecated) Real estate loans (in bank) Real estate loans (hypothecated) Overdrafts Rank building	72,972 71,305 7,029 26,664 16 12,000	16 20 15 00 77 00	Capital stock 50,000 Surplus fund 7,838 Interest received 8,431 Exchange received 1 Rent received 300 Mill acceptances 22,057	00 46 39 04 00 96 00
Loans and discounts (in bank) Loans and discounts (hypothecated) Real estate loans (in bank) Real estate loans (hypothecated) Overdrafts Rank building Furniture and fixtures	72,972 71,305 7,029 26,664 16 12,000 4,000	16 20 15 00 77 00 00	Capital stock 50,000 Surplus fund 7,838 Interest received 8,431 Exchange received 1 Rent received 300 Mill acceptances 22,057 Bills rediscounted 6,000	00 46 39 04 00 96 00
Loans and discounts (in bank) Loans and discounts (hypothecated) Real estate loans (in bank) Real estate loans (hypothecated) Overdrafts Rank building Furniture and fixtures	72,972 71,305 7,029 26,664 12,000 4,000 22,352	16 20 15 00 77 00 00 43	Capital stock 50,000 Surplus fund 7,838 Interest received 8,431 Exchange received 1 Rent received 300 Mill acceptances 22,057 Bills rediscounted 6,000	00 46 39 04 00 96 00
Loans and discounts (in bank) Loans and discounts (hypothecated) Real estate loans (in bank) Real estate loans (hypothecated) Overdrafts Bank building Furniture and fixtures. Other real estate owned. Profit and loss.	72,972 71,305 7,029 26,664 16 12,000 4,000 22,352 3,338	16 20 15 00 77 00 00 43 49	Capital stock 50,000 Surplus fund 7,838 Interest received 8,431 Exchange received 1 Rent received 300 Mill acceptances 22,057 Bills rediscounted 6,000	00 46 39 04 00 96 00
Loans and discounts (in bank) Loans and discounts (hypothecated) Real estate loans (in bank) Real estate loans (hypothecated) Overdrafts Bank building Furniture and fixtures Other real estate owned. Proft and loss. Bonds	72,972 71,305 7,029 26,664 12,000 4,000 22,352	16 20 15 00 77 00 00 43 49 35	Capital stock 50,000 Surplus fund 7,838 Interest received 8,431 Exchange received 1 Rent received 300 Mill acceptances 22,057 Bills rediscounted 6,000	00 46 39 04 00 96 00
Loans and discounts (in bank) Loans and discounts (hypothecated) Real estate loans (in bank) Real estate loans (hypothecated) Overdrafts Rank building Furniture and fixtures. Other real estate owned. Profit and loss. Warrants Expenses	72,972 71,305 7,029 26,664 16 12,000 4,000 22,352 3,338 12,123	16 20 15 00 77 00 00 43 49 35	Capital stock 50,000 Surplus fund 7,838 Interest received 8,431 Exchange received 1 Rent received 300 Mill acceptances 22,057 Bills rediscounted 6,000	00 46 39 04 00 96 00
Loans and discounts (in bank) Loans and discounts (hypothecated) Real estate loans (in bank) Real estate loans (in bank) Overdrafts Bank building Furniture and fixtures. Other real estate owned. Profit and loss. Warrants Expenses Interest	72,972 71,305 7,029 26,664 16 12,000 4,000 22,352 2,352 1,601 9,827 4,257	16 20 15 00 77 00 00 43 49 35 60 85 90	Capital stock 50,000 Surplus fund 7,838 Interest received 8,431 Exchange received 1 Rent received 300 Mill acceptances 22,057 Bills rediscounted 6,000	00 46 39 04 00 96 00
Loans and discounts (in bank) Loans and discounts (hypothecated) Real estate loans (in bank) Real estate loans (hypothecated) Overdrafts Rank building Furniture and fixtures Other real estate owned. Profit and loss. Sonds Expenses Interest paid	72,972 71,305 7,029 26,664 16 12,000 4,000 22,352 3,338 12,123 1,023 4,257 4,257	16 20 15 00 77 00 43 49 35 60 85 90	Capital stock 50,000 Surplus fund 7,838 Interest received 8,431 Exchange received 1 Rent received 300 Mill acceptances 22,057 Bills rediscounted 6,000	00 46 39 04 00 96 00
Loans and discounts (in bank) Loans and discounts (hypothecated) Real estate loans (in bank) Real estate loans (hypothecated) Overdrafts Rank building Furniture and fixtures. Other real estate owned. Profit and loss. Warrants Expenses	72,972 71,305 7,029 26,664 16 12,000 4,000 22,352 3,338 12,123 1,023 4,257 4,257	16 20 15 00 77 00 00 43 49 35 60 85 90	Capital stock 50,000 Surplus fund 7,838 Interest received 8,431 Exchange received 1 Rent received 300 Mill acceptances 22,057 Bills rediscounted 6,000	00 46 39 04 00 96 00

Under the statements of banks for Pacific county will be found the report of condition of this bank at the close of business November 10th.

On the 29th day of March, this department took charge of the affairs of the Northport State Bank of Northport, Washington, and petitioned the Superior Court of Stevens county, through the Attorney General's office, for a receiver to be appointed to wind up its affairs. Miss Alice M. Janneck was appointed receiver by the court, on April 3d, 1915. The following is a report of the condition of the Northport State Bank at the close of business on March 27th, 1915, according to the books of the bank:

RESOURCES.			LIABILITIES.		
Due from banks: Spokane & Eastern Trust Company, Spokane Chase National Bank, New York Bank of Montreal, Rossland, B. C Currency Gold coin Silver coin	\$7,478 2,936 725 867 675 257	74 23 00 00 55	Individual deposits	\$30,888 10,000 708 13,458	00 87
Cash items	424	95			
•	\$13,364	50	-	\$55,055	86
Loans and discounts Loans on real estate Overdrafts Bank building Furniture and fixtures. Other real estate owned Warrants Expenses Teller's shorts	21,299 154 2,000 1,000 10,000 15 604	55 47 00 00 00 75	Capital stock Surplus fund Interest Exchange Rent Bills payable		00 00 80 26 00
Total	\$81,422	92	Total	\$81,422	92

The following summary of "due from banks" or the deposits made by state banks and trust companies with their reserve agents discloses the fact that the state institutions are discriminating in favor of national banks, in the matter of reserve deposits, more than three to one.

DUE FROM BANKS.

Due from National Banks outside of the		
state\$5,936,202 94		
Due from National Banks in the state 8,207,863 95	\$14,144,066	89
Due from State Banks outside of the		
state\$2,075,856 95		
Due from State Banks in the state 2,561,026 62	4,636,883	57
Due from sundry banks, including foreign countries	. 2,754,859	75
Total due from banks	.\$21,535,810	21

National banks are prohibited from carrying balances with state banks in excess of ten per cent. of the bank's capital and surplus. The balance is then considered practically the same as a loan. Being that we are amply provided in this state with good, strong, state banking institutions, which can meet any and all competition along good, conservative lines, there can

be no good reason why state institutions should not co-operate to the extent of strengthening their own state institutions.

The Washington Bankers' Association has seen the necessity of more complete banking laws for the protection of the depositing public, and has appointed a commission to study the different banking laws recently enacted by the different states of the Union, as well as the Federal Reserve Act, and to present for the consideration of the 1917 session of the legislature a complete, new code of banking laws.

Mr. H. C. Lucas, president of the Washington Bankers' Association, has persuaded the following prominent bankers of the state, who have had many years' experience in banking, to accept appointment on this very important commission:

Mr. W. H. Pringle, vice-president of the Scandinavian American Bank of Tacoma, is chairman; the other members are Mr. J. H. Edwards, vice-president of the Dexter Horton Trust and Savings Bank of Seattle; Mr. C. J. Lord, president of the Capital National Bank of Olympia; Mr. J. W. Alexander, president of the Security State Bank of Chehalis, and Mr. C. E. Bingham, president of the C. E. Bingham & Co. Bank of Sedro Woolley.

The commission has organized and begun active work. They expect to secure the co-operation of the Attorney General's office, in assisting in the work of drafting a new banking code. I look forward to very effective work by this commission and a revision of the banking laws of this state that will make them second to none.

The banking laws, together with the Negotiable Instruments Act and the Bills of Lading Act, have been compiled and annotated by this department and Mr. E. W. Allen, assistant attorney general, and distributed to the state banks, free of charge. The pamphlet also contains forms and instructions in regard to the making of reports, etc., of state banks and trust companies.

Respectfully submitted,

W. E. HANSON, State Bank Examiner.

EXPENSES AND RECEIPTS.

Expenses from January 1, 1915, to December 31, 1915, inclusive consist of the following:
Salaries \$11,350 17 Traveling, office and other expenses 6,692 08
Total expenses of department
Receipts of the department from January 1, 1915, to December 31 1915, inclusive, are as follows:
Fees for examinations\$14,384 25
Sale of annual reports
Miscellaneous receipts, filing reports, fines assessed, etc 911 23

EXAMINATION FEES.

EARMINATION FEES.		
Received from	Amo	unt.
Moxee State Bank, Moxee City	\$25	85
Issaquah State Bank, Issaquah	30	60
King County State Bank, Seattle	28	00
Lynden State Bank, Lynden	. 36	05
Northwestern State Bank, Bellingham	76	40
Skagit County Savings Bank & Trust Co., Mt. Vernon	58	20
LaConner State Bank, LaConner	32	80
First State Bank, LaCrosse	34	10
Security State Bank, LaCrosse	28	20
Citizens Bank, Anacortes	35	80
Lyman State Bank, Lyman	27	30
State Bank of East Stanwood, East Stanwood	29	25
Bank of Starbuck, Starbuck	28	55
Pomeroy State Bank, Pomeroy	54	10
Spokane State Bank, Spokane	34	75
Marysville State Bank, Marysville	33	25
Commercial Bank, Snohomish	31	10
C. E. Bingham & Co., Sedro Woolley	42	50
Farmers & Merchants Bank, Cashmere	32	10
Cashmere State Bank, Cashmere	30	80
Bank for Savings, Seattle	57	65
Mansfield State Bank, Mansfield	29	70
Farmers & Merchants Bank, Edison	27	90
Coulee State Bank, Coulee City	32	65
Farmers State Bank, Almira	27	05
Hartline State Bank, Hartline	29	50
Langley State Bank, Langley	26	00
Kirkland State Bank, Kirkland	28	00
Citizens Bank of Sultan, Sultan	26	85
Farmers & Merchants Bank, Rockford	29	30
Chehalis County Bank, Aberdeen	33	70
The Mabton Bank, Mabton	30	30
Central Bank of Toppenish, Toppenish	28	85
Farmers State Bank, Reardan	32	35
The Traders Bank, Toppenish	31	00
Prosser State Bank, Prosser	35	50

Received from	Amor	unt.
Citizens State Bank, Prosser	\$ 33	35
University State Bank, Seattle	50	60
The Farmers Bank, Ellensburg	50	75
Central Bank & Trust Co. North Yakima	54	75
Kittitas State Bank, Kittitas	26	10
Bank of Ellensburg, Ellensburg	33	90
Scandinavian American Bank, Tacoma	139	80
American Savings Bank & Trust Co., Seattle		35
Rainier Valley State Bank, Seattle	32	00
Bank of Commerce, Everett (Riverside Branch)	30	
State Bank of Bellevue, Bellevue		30
Bank of Commerce, Everett	57	45
State Bank of Shelton, Shelton		75
Farmers & Lumbermen's Bank, Elma	29	80
Albion State Bank, Albion	29	25
First Savings Bank & Trust Co., Colfax	61	
Hillyard State Bank, Hillyard	38	10
Bank of Fairfield, Fairfield		30
Bank of Latah, Latah	27	95
Selah State Bank, Selah	27	15
Specie Bank, Seattle	27	30
Yakima Trust Company, North Yakima	71	50
State Bank of Enumciaw, Enumciaw	33	
State Bank of Buckley, Buckley	34	
Citizens Bank of Tenino, Tenino	26	35
Cle Elum State Bank, Cle Elum	45	90
Cle Elum State Bank (Roslyn Branch)	36	50
Estonville State Bank, Eatonville	26	45
State Bank of Battle Ground. Battle Ground	25	60
Pe Eli State Bank, Pe Ell	25	70
Nathes State Bank, Naches	27	10
Bank of Stanwood, Stanwood	39	00
The Rucker Bank. Hartford	27	05
state Bank of Edmonds. Edmonds	28	60
Citizens State Bank. Tekoa	31	85
Comesys, Hanford & Miller Bank, Thornton	29	15
Granite Falls State Bank, Granite Falls	27	45
CUTTY State Rank Richland	27	60
STETELL Trust & Savines Rank Everett	45	00
State Rank Rothell	28	05
~~~~ Worth State Bank, Leavenworth	30	40
**************************************	30	50
" Side State Rank Seattle	26	25
Mark of Spangle Spangle	29	25
Dank of North Hend North Hend	26	75
County Renk Enhrate	30	75
or Endicott, Endicott	29	10
of Farmington, Farmington	29	
Citizens State Bank, Auburn	27	
Theeler State Bank, Wheeler	26	
Unjon Bank of Granger, Granger	28	
Outlook State Bank, Outlook	26	
ganytide Bank, Sunnyside	34	
Grandview State Bank, Grandview	30	
First Bank of Wilkeson, Wilkeson		15
Vashon State Bank, Vashon	28	
Ridgefield State Bank, Ridgefield	26	90

	Amo	
Peoples State Bank, Enumclaw	<b>\$</b> 32	
Cowlitz County Bank, Kalama		95
Little Falls State Bank, Vader		95
Castle Rock Bank, Castle Rock		10
Almira State Bank, Almira		50
State Bank of Wilbur, Wilbur		75
Creston State Bank, Creston	31	15
Waverly Exchange Bank, Waverly		85
Bank of Winona, Winona		90
Elberton State Bank, Elberton		80
Waterville Savings Bank, Waterville		90
Douglas County Bank, Waterville		55
Withrow State Bank, Withrow	29	25
Commercial State Bank, Oakesdale		85
Centralia State Bank, Centralia		40
Bank of Commerce, Anacortes	<b>32</b>	75
Bank of Rosalia, Rosalia		00
Baumeister, Vollmer & Scott Bank, Asotin		95
St. John State Bank, St. John	32	05
Columbia Valley Bank, Wenatchee	47	45
Glenwood State Bank, Glenwood	26	05
Knettle State Bank, Pomeroy	35	50
Farmers & Merchants Bank, Centralia	42	
Farmers State Bank, Centerville	27	
Brooks & Company Bank, Goldendale	30	75
State Bank of Concrete, Concrete	26	60
Touchet State Bank, Touchet	26	
Pine City State Bank, Pine City	28	05
Orting State Bank, Orting	29	75
Bank of Clallam County, Port Angeles	41	15
Merchants Bank, Port Townsend	51	60
Citizens Bank, Bremerton	34	80
Bremerton Trust & Savings Bank, Bremerton	28	95
Security State Bank, Newport	36	85
Metaline Falls State & Savings Bank, Metaline Falls	26	65
Ione State Bank, Ione	28	
State Bank of Sequim, Sequim	27	70
Arlington State Bank, Arlington	31	70
Citizens State Bank, Arlington	34	30
Harrington State Bank, Harrington	29	
Wilson Creek State Bank. Wilson Creek	29	-
Metropolitan Bank, Seattle	141	
Methow Valley Bank, Pateros	25	55
Miners & Merchants Bank, Chelan	31	
Lamont State Bank, Lamont	28	75
West Seattle State Bank, Seattle	27	
Dexter Horton Trust & Savings Bank, Seattle	225	00
Northwest Trust & Safe Deposit Co., Seattle	103	
Seattle Trust Company, Seattle	25	00
Scandinavian American Bank, Ballard	56	-
· ·	200	
Scandinavian American Bank, Spokane	58	
Othello State Bank, Othello	27	
Warden State Bank, Warden	26	
Security State Bank, Spokane	28	
Union State Bank, Odessa	39	-
Snokane & Eastern Trust Company, Snokane	225	00

Received from	A
	Amount.
Bank of Montreal, Spokane	
Bank of Commerce, Everett (Coupeville Branch)	29 70
Bank of Stevenson, Stevenson	80 20
Gillett State Bank, White Salmon	28 65
Oak Harbor State Bank, Oak Harbor	27 25
Liberty Bay Bank, Poulsbo	31 40
State Bank of Lyle, Lyle	26 75
Toledo State Bank, Toledo	27 95
Kitsap County Bank, Port Orchard	30 20
Washington Trust Company, Spokane	59 80
Tolt State Bank, Tolt	27 75
Molson State Bank, Molson	28 80
Union Title & Trust Co., Oroville	25 00
Oakville State Bank, Oakville	27 05
Security State Bank, Chehalis	85 10·
Peoples Savings Bank, Seattle	132 00
Field & Lease, Bankers, Centralia	33 90
Okanogan State Bank, Riverside	27 55
Commercial Bank, Okanogan	28 60
State Bank of Morton, Morton	26 55
Commercial Bank, Chesaw	26 30
Omak State Bank, Omak	27 95
Bridgeport State Bank, Bridgeport	28 25
North Pacific Bank, Tacoma	33 55
Entiat State Bank, Entiat	25 75
Hamilton State Bank, Hamilton	27 30
State Bank of Sumner, Sumner	32 90
Commercial Bank, Conconully	27 45
Commercial Bank, Twisp	30 30
Fidelity Trust Company, Tacoma	225 00
First State Bank, Clear Lake	26 90
Poyallup State Bank, Puyallup	38 65
Okanogan State Bank, Riverside (Loomis Branch)	26 85
8an Juan County Bank, Friday Harbor	37 35
United States Trust Company, Aberdeen	38 95
State Bank of Kent, Kent.	
Broadway State Bank, Seattle	34 55 34 05
State Bank of Black Diamond, Black Diamond	27 30
Bank of Edwall, Edwall.	29 35
Canadian Bank of Commerce, Seattle	165 90
State Bank of Charleston, Charleston	26 55
Union Savings & Trust Company, Seattle	225 00
Inion Savings & Trust Company, Seattle (Ballard Branch)	46 25
Union Savings & Trust Co., Seattle (Georgetown Branch).	42 85
Title Trust Company Seattle (Georgetown Branch)	
Title Trust Company, Seattle.  Japanese Commercial Bank, Seattle.	25 00 45 20
Oriental American Dank, Seattle	
Oriental American Bank, Seattle.	34 10
Eltopia State Bank, Eltopia.	26 35
Pacific State Bank, South Bend.	48 85
Farmers State Bank, Connell	26 25
Montesano State Bank, Montesano	47 90
Bank of Elma, Elma. Tekoa State Bank, Tekoa. Citizana	33 10
Citizene State Dank Danellus	34 20
Citizens State Bank, Puyallup. Lumberman's Bank, Hoquiam.	40 15
First Book of Wilder Plant	43 55
First Bank of White Bluffs.	27 40
~ ale Bank, Kun	29 10

Description of Assemb	4	
	Amoi	
Yakima Valley Bank, North Yakima	\$76	
Bank of Sprague, Sprague	40	
Port Angeles Trust & Savings Bank, Port Angeles	28	
First Bank of Anatone, Anatone	26	
Lincoln County State Bank, Davenport	34	
Hunters Exchange Office, Hunters	26	
First State Bank, Deer Park	28	
Bank of Asotin County, Asotin	28	
Green Lake State Bank, Seattle	31	25
State Bank of Clarkston, Clarkston	27	35
Colville Loan & Trust Company, Colville	54	35
Ferry County State Bank, Republic	32	90
Orient State Bank, Orient	26	35
Bank of Colville (Kettle Falls Branch)	27	80
Bank of Colville, Colville	38	00
Bank of Chewelah, Chewelah	28	35
Farmers & Merchants Bank, Springdale	27	30
Roy State Bank, Roy	28	
First State Bank, Garfield	31	
Security State Bank, Palouse	39	
Farmers State Bank, Johnson		10
State Bank of Conway, Conway		70
Napavine State Bank, Napavine	25	
	28	
Duvall State Bank, Duvall	29	
State Bank of Winlock, Winlock	28	
Farmers State Bank, Uniontown	31 30	
Colton State Bank, Colton	30	
Colfax State Bank, Colfax		
State Bank of Goldendale, Goldendale	34 50	
Peoples State Bank, Walla Walla	29	
State Bank of Blaine, Blaine	35	
Exchange Bank, Waitsburg	81	
First State Bank, Prescott	29	
Redmond State Bank, Redmond	29	
Bank of Bickleton, Bickleton	65	
Farmers Savings Bank, Walla Walla	38	
Washington Exchange Bank, Vancouver	37	
Mortgage Trust & Savings Bank, Seattle	53	
	52	-
Bankers Trust Company, Tacoma	31	
Wahkiakum County Bank, Cathlamet	30	
Leavenworth State Bank, Leavenworth	30	
Tumwater Savings Bank, Leavenworth	31	
Home State Bank, Blaine	29	
Quincy Valley State Bank, Quincy	30	
German-American State Bank, Ritzville	36	
Farmers State Bank, Hatton	27	
Garrison Bros. State Bank, Sumas	31	
Nooksack Valley State Bank, Everson	28	
Custer State Bank, Custer	26	
Bank of Pasco, Pasco	29	-
State Bank of Connell	30	
Citizens Bank & Trust Co., Everett	88	
Commercial Bank & Trust Co., Wenatchee	36	
Kelso State Bank Kelso	37	

Received from	Amoi	
larke County Bank, Washougal	<b>\$29</b>	
irst State Bank, Yacolt		15
armers Bank, Krupp	29	
citizens Bank of Renton, Renton	36	
Rayes & Hayes, Bankers, Aberdeen	114	
Union Trust & Savings Bank, Spokane		35
Farmers & Mechanics Bank, Spokane		05
Puget Sound State Bank, Tacoma		55
Walla Walla Safety Deposit & Trust Co., Walla Walla		00
Woodland State Bank, Woodland		45
Farmers & Merchants State Bank, Malden		95
Tacoma Savings Bank & Trust Co., Tacoma	108	
Skagit County Savings Bank & Trust Co., Mt. Vernon		50
Steptoe State Bank, Steptoe	26	
LaCenter State Bank, LaCenter	27	
Coffman, Dobson Co., Chehalis	71	
Northwestern State Bank, Bellingham	69	
Albion State Bank, Albion	28	
First State Bank, LaCrosse	34	
Farmers State Bank, St. John	27	
Rainier Valley State Bank, Seattle	33	
Issaquah State Bank, Issaquah	80	
King County State Bank, Seattle	28	
State Bank of Seattle. Seattle	90	
Clark Bros. & Klein Trust Co., Spokane	25	
Farmers & Merchants Bank, Edison	27 29	15
Security State Bank, LaCrosse	29	
Bank for Savings, Seattle	58	
Spokane State Bank, Spokane	36	
Lynden State Bank, Lynden	36	
Bank of Ellensburg, Ellensburg.	34	
C. E. Bingham & Co., Sedro Woolley	44	
Citizens Bank, Anacortes		80
Specie Bank, Seattle.	28	
Washington Safe Deposit & Trust Co., Spokane	25	
Pullman State Bank, Pullman	43	
Lyman State Bank, Lyman	27	75
State Bank of Relievue. Relievue	25	
Fremont State Bank, Seattle		60
Manusicy State Rank, Langley	26	55
Lacouner State Bank, LaConner	31	30
Maijsville State Bank, Marvaville	33	40
" Dank of East Stanwood East Stanwood	29	20
"Commercial Rank of Snohomish County, Snohomish	31	25
Miller State Rank Kittitag	26	45
* armers Rank Ellenshurg	53	65
" Mark Rank Rultan	27	25
""'CERITY Reste Rank Resttle		10
'Surius State Rank Pomerov	61	25
""" Ud State Rank Kirkland	27	50
"""(ulan Savings Bank, Seattle	30	25
Nurus State Bank, Prosser	83	
State Bank, Prosser	35	20
Blik of Starbuck, Starbuck	29	25
Traders Bank, Toppenish	34	
Merchants Bank, Rockford	30	20

Descined from	4	
Received from  Bank of Fairfield, Fairfield	Amount.	
Northern Bank & Trust Co., Seattle	•	
Bank of Latah, Latah		
Scandinavian American Bank, Tacoma		
Central Bank of Toppenish, Toppenish	30 15	•
Selah State Bank, Selah	28 75	
Farmers State Bank, Sprague	25 85	
First Savings & Trust Co., Colfax	62 15	
Hillyard State Bank, Hillyard	37 65	
Aberdeen State Bank, Aberdeen	33 30	
American Savings Bank & Trust Co., Seattle	154 80	
Farmers State Bank, Reardan	32 80	
State Bank of Buckley, Buckley	33 00	
Bothell State Bank, Bothell	27 75	
Citizens Bank of Tenino, Tenino	<b>26</b> 15	
Cle Elum State Bank, Cle Elum	46 55	
Bank of Stanwood, Stanwood	39 25	
Coulee State Bank, Coulee City	34 55	
State Bank of North Bend, North Bend	26 95	
Farmers & Lumbermen's Bank, Elma	30 35	
State Bank of Edmonds, Edmonds	28 85	
German American Mercantile Bank, Seattle	85 85	
Cle Elum State Bank (Roslyn Branch)	37 05	
Hartline State Bank, Hartline	31 00	
Farmers State Bank, Almira	<b>29 2</b> 0	
Security State Bank, Richland	27 50	
Cashmere State Bank, Cashmere	30 90	
Farmers & Merchants Bank, Cashmere	34 70	
State Bank of Enumclaw, Enumclaw	33 75	
Granite Falls State Bank, Granite Falls	28 00	
Yakima Trust Company, North Yakima	75 20	
Peoples State Bank, Enumclaw	31 75	
Eatonville State Bank, Eatonville	27 35	
North Side State Bank, Seattle	26 45	
Land Title Savings Bank, Spokane	25 20 27 75	
The Rucker Bank, Hartford	55 15	
First Bank of Wilkeson, Wilkeson	32 15	\$14,384 25
First Dank of Wirkeson, Wirkeson		\$12,00x 20
FILING SEMI-ANNUAL REPORTS.		
	Amount.	
Seattle Trust Company, Seattle	\$10 00	
Title Trust Company, Seattle	10 00	
Union Title & Trust Co., Oroville	10 00	
Union Trust Company, Seattle	10 OO	
Clark Bros. & Klein Trust Co., Spokane	10 00	
Washington Safe Deposit & Trust Co., Spokane	10 00	
United States Trust Co., Seattle	10 00	
Walla Walla Safety Deposit & Trust Co., Walla Walla	10 00	
Seattle Trust Company, Seattle	10 00	
Title Trust Company, Seattle	10 00	
Union Title & Trust Co., Oroville	10 00	
Clark Bros. & Klein Trust Co., Spokane	10 00	
Washington Safe Deposit & Trust Co., Spokane	10 00	
Walla Walla Safety Deposit & Trust Co., Walla Walla	10 00	140 00

FINES ASSESSED.				
Received from	Amo	unt.		
State Bank, Langley	\$10	00		
Jangley State Bank, Langley Security State Bank, LaCrosse.	20	00		
	30	00		
SANK OF NORTH KEND NORTH KEND	20	00		
- State Bank, Sumas	130	00		
Hank & Trust Co., North Yakima	10	00		
State Bank, Aberdeen	20	00		
Rank of Bellevue, Bellevue	10	00		
State Bank, Uniontown,	30	00		
South Side State Bank, Seattle	10	00		
Pusst Sound State Bank, Tacoma	10	00		
Wangfield State Bank, Mansfield	20	00		
State Bank of Clarkston	20	00		
Oak Harbor State Bank, Oak Harbor	20	00		
Metaline Falls State & Savings Bank, Metaline Falls	20	<b>0</b> 0		
Grant County Bank, Ephrata	30	<b>0</b> 0		
Security State Bank, LaCrosse	20	00		
First Bank of Wilkeson, Wilkeson	20	00		
Albion State Bank, Albion	10	00		
Specie Bank, Seattle	10	00		
Southwestern Washington Bank, Ilwaco	10	00		
Commercial Bank, Conconully	20	00		
Kirkland State Bank, Kirkland	10	00		
Arlington State Bank, Arlington	10	00		
Bothell State Bank, Bothell		00		
Citizens Bank of Georgetown, Seattle		00		
Security State Bank, Richland		00		
Farmers State Bank, Centerville		00		
Comegys. Hanford & Miller Bank, Thornton	20			
Withrow State Bank, Withrow.		00		
Prosser State Bank, Prosser		00		
Redmond State Bank, Redmond.		00		
Bank of Pasco, Pasco.		00		
Granite Falls State Bank, Granite Falls	10			
Quincy Valley State Bank, Quincy.		00		
Pine City State Bank, City.		00		
Farmers State Bank, Hatton. The Supposed Park Supposed		00		
Cowlite Canal Bank, Sunnyside	20	00		
Central Post of Manualth Manualth		00		
St. John State Bank, St. John		00	\$760	00
State Dank, St. John	20		φισο	00
MISCELLANEOUS COLLECTIONS.				
Sale Received from	Amo	unt.		
Rethand Annual Reports	\$1	80		
Refund from Northern Pacific Railway for unused mileage.	11	23	13	03
Total receipts for year	• • • •	<del></del>	\$15,297	28

## BANKS AUTHORIZED DURING THE YEAR 1915.

NAME OF BANK		Location	Capital
NAME OF BANK		Location	Stock
Centralia State Bank		Centralia	\$100,000 00
Glenwood State Bank		Glenwood	10,000 00
Farmers State Bank		Connell	10,000 00 10,000 00
Buardian Savings Bank		Seattle	100,000 00
Farmers State BankFarmers & Merchants Bank	Sprague		25,000 00 25,000 00
* Conversion from private bank.	· <u>'</u>		
INCREASE OF CAPITA	L STOCK	DURING 1915.	
NAME OF BANK	Location	Increased From	То
Steptoe State Bank	Steptoe Ellensburg		\$20,000 00 50,000 00
DECREASE OF CAPITA	L STOCK	DURING 1915.	
NAME OF BANK	Location	Decreased From	То
Jnion Bank	Granger	\$25,000 00	\$10,000 00
CHANGE	OF NAME.		
FORMERLY		NOW	Location
Union Savings Bank	Security State Bank		Spokane Aberdeen
STATE BANKS NAT	IONALIZE	D IN 1915.	
FORMERLY		NOW	Location
Camas State Bank	First Nation	nal Bank	Camas
	LED IN 19		

NAME OF BANK	Location
Northport State Bank	Northport South Bend

#### BANKS CONSOLIDATED IN 1915.

NAME OF BANK	Location	Consolidated With	Date
Sumas State Bank	Sumas	Garrison Bros. State Bank	April
	Pullman	First National Bank	May
	Leavenworth	Leavenworth State Bank	October

## BANKS LIQUIDATED DURING 1915.

NAME OF BANK	Location
Bank of Lind	Kiona
Bank of Kahlotus	Hoquiam
Citizens State Bank. Calispell Valley Bank.	Wilson Creek

## DEPOSITS OF STATE BANKS.

The following table shows the total deposits of state banks, by counties:

COUNTIES	Statement of October 31, 1914	Statement of November 10, 1915
Adams	8447,268 15	\$829,379 51
ANOTED	226.021 16	840,921 52
Benton	489,147 51	485,059 59
Chelan	1,416,624 04	1.798,676 42
Ciallann	506,995 35	494,206 74
Clarke	591,982 57	489,945 60
Columbia	78,640 64	85.847 66
Cowlitz	638,070 46	689.938 57
Douglas	811.047.05	903,862 56
raiy _	192,708 97	167,458 27
Pranktin	281.200 70	260,775 40
Gardeld	645,984 45	989,267 46
Grant	869,756 89	863,621 98
Grays Harbor	8.567,309 01	3.782.157 22
TENERAL T	70,930 25	76,700 75
Jefferson	497,980 08	545,986 77
King	40,494,779 49	41.790.080 96
Kitsan	459,902 41	
Kittif		561,798 22
Klickitat	1,170,772 22	1,282,046 67
Lewis	488, 260 24	606,043 75
Lincoln	2,209,391 57	2,080,826 88
Vason	2,595,688 29	2,258,680 22
Okanon	801,950 90	384,157 54
	526,172 78	556,919 86
Pend Oreille	1,028,112 87	975,544 24
	384,280 76	340,359 26
San Juan	9,956,335 79	9,988,906 66
Skagit	279,157 36	239,786 45
Statuania	1,188,531 10	1,214,184 99
Subhomish	68,705 27	268,073 93
Spokane	2,628,444 02	2,706,006 26
Stevens	* 22,759,990 64	13,979,677 05
Thurston	597,041 62	580,912 48
Espring	94,227 24	23,464 73
Wahkiakum Walla	45,352 86	117,616 56
	1,631,818 65	1,785,299 07
	1,901,702 04	1,799,871 71
Whitman	4,839,749 51	3,635,302 26
Yakima	2,058,181 20	2,186,785 14
_	<del></del>	
Total Deposits	<b>* \$108,439,218</b> 12	\$101,553,085 91

Included trust accounts.

## SAVINGS DEPOSITS OF STATE BANKS.

The following table shows the total savings deposits of state banks, by counties.

COUNTIES	Statement of October 31, 1914	Statement of November 10, 1915
Adams	\$7,121 08	\$7,735 19
Asotin	22,166 22	26.711 79
Benton	223,817 90	308.509 02
Chelan	19.749 53	38,140 31
Clallam	34.277 15	40,430 27
Clarke	34,277 15	40,430 27
Columbia	0.800.05	15 800 00
Cowlitz	8,788 25	15,302 97
Douglas	106,295 29 2,796 70	187,362 57 1,654 85
Ferry	2,796 70 6.075 29	
Franklin	0,075 29	12,201 27
Garfield		
Grant	8,556 50	9,913 89
Grays Harbor	688,477 67	688,564 30
Island	1,096 44	3,077 36
Jefferson	194,077 84	206,077 06
King	28,981,165 89	23,494,732 58
Kitsap	186,495 74	221,348 80
Kittitas	274,032 47	818,445 90
Klickitat		. 11,092 72
Lewis	648,499 18	561,552 76
Lincoln	112,407 81	100,312 12
Mason	133,919 65	140,095 68
Okanogan		
Pacific	221,953 26	147,560 70
Pend Orefle	67,068 77	67,712 31
Plerce	4,834,230 17	4,849,010 75
San Juan	25,231 51	24,786 55
Skagit	91,963 13	115,968 20
Skamania		
Snohomish	891,495 67	929,624 08
Spokane	5,095,044 15	5,061,831 44
Stevens	98,756 44	105,106 81
Thurston	10,877 29	
Wahkiakum	8,689 75	2,558 66
Walla Walla	176,281 52	233,262 96
Whateom	308,700 08	386,200 92
Whitman	284,027 51	271,389 05
Yakima	272,818 00	289,106 35
Totals	\$38,986,968 25	\$38,712,375 19

## DUE FROM BANKS.

Due from National Banks, outside of the state\$5,936,202 94 Due from National Banks, in the state 8,207,863 95	\$14,144,066 89
Due from State Banks, outside of the state\$2,075,856 95 Due from State Banks, in the state	4,636,883 57
Due from sundry banks, including foreign countries	2,754,859 75
Total due from banks	\$21,535,810, 21

## RESOURCES AND LIABILITIES OF ALL STATE BANKS AND TRUST COMPANIES.

The following table shows the aggregate of resources and liabilities of all state banks and trust companies, doing business in this state, on the 31st day of October, 1914, and the 10th day of November, 1915:

RESOURCES	Statement October 3 1914		Statement of November 10, 1915
oans on real estate	\$11,978,518		\$12,948,402 78
ther loans and discounts	56,663,220		56,761,810 03
reidrafts	262,658		222,835 2
stocks, bonds and warrants	15,987,254		16,804,586 50
Banking house, furniture and fixtures	5,883,789		6,033,178 88
Other real estate owned	3,439,212		8,949,798 16
Due from banks.	19,244,841	80	21,535,810 21
Cash and exchange	8,994,794		7,592,175 10
Expenses Other resources, including trust fund investments	1,663,188 9,388,857		1,617,698 26
omer resources, including trust lund investments	9,355,501	81	36,969 32
Totals	\$133,429,831	70	\$127,508,254 51
LIABILITIES			
Capital stock paid in	\$15,817,500	m	\$15.621.700 00
Surplus fund	3,901,020		4,890,379 89
Undivided profits	3,858,417	ã	3,732,048 98
Dividends unpaid	17.686		6,734 44
Due to panks	5.008.645		5,733,081 68
City, county and state denosits.	1,853,172		2,298,574 54
rucial savings denogits	686,829		636,192 05
Privalle aliniant to chack	40,767,030		42,741,389 58
PCWAUL Certificates of deposit	1,711,832		1,919,902 50
THE CETTINESTAL OF GARDASIT	9,103,708		8,770,902 02
	88,986,958		38,712,375 19
rices 1000m	9.502.247	56	148,703 48
THE VELS (1) PROPERTY	1,574	02	3,355 00
CALIDED MANEE	158,370	76	141,878 34
	801,225	04	543,074 80
wascounite	340,393	11	358,860 53
	914,988		1,669,164 91
Other liabilities	2,731	82	79,987 18
Totals	<b>8133</b> ,429,331	70	\$127,508,254 51

# TRUST FUNDS AS REPORTED BY THE TRUST COMPANIES AND THE BANKS DOING A TRUST COMPANY BUSINESS, AT CLOSE OF BUSINESS NOVEMBER 10, 1915.

Securities held in trust.  Real estate held in trust.  Trust funds	14 749 491	ሰዳ
	\$24,153,381	55
Trusts accepted	\$24,153,381	55

## REPORT OF STATE BANKS, INCLUDING SAVINGS BANKS, SHOWING CONDI-TION AT CLOSE OF BUSINESS ON NOVEMBER 10, 1915

## ADAMS COUNTY.

## HATTON-FARMERS STATE BANK.

W. H. MILLER, President.	LEO C. CROSSLAND, Cashier.
RESOURCES.   S81,798 81	Capital paid in
OTHELLO—OTHEL	LO STATE BANK
WM. SNYDER, President.	JOHN W. WEBSTER, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts \$48,822 07 Overdrafts 555 47	Capital paid in\$10,000 00
Overdrafts	Surplus fund         2,000         00           Undivided profits         2,885         96
Banking house 1.700 00	Deposits subject to check 33.072 12
Furniture and fixtures 1,900 00	Demand certificates of de-
Other real estate owned 2,227 95	posit 21,381 61
Due from banks 5,789 84 Checks and other cash	Cashier's checks 428 12
Items 320 41	
Cash on hand 2,850 48	
Expenses 1,793 93	
Total\$69,767 81	Total
RITZVILLE—GERMAN-AI	MERICAN STATE BANK.
C. H. CLODIUS, President.	J. F. Lansing, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts \$319,339 55	Capital paid in \$75,000 00
Overdrafts 438 29	Surplus fund 4.500 00
Bonds and warrants 4,893 75	Undivided profits 19.161 98
Furniture and flatures 3,500 00	Due to banks
Other real estate owned 2,100 00 Due from banks 26,728 70	Deposits subject to check. 115,360 75 Demand certificates of de-
Exchanges for clearing	posit 7.227 29
house 12,548 68	Time certificates of de-
Cash on hand 10,857 33	posit 100,912 76
Expenses 8,794 77	Savings deposits 7,024 86
	Bills payable 60,000 00

Total.....\$389,201 07

Total.....\$389,201 07

E. MATTHES, Cashier.

## ASOTIN COUNTY.

## ANATONE-FIRST BANK OF ANATONE.

Eli Bolick, President.		John K. McIntosh, Cashier.
RESOURCES.   Loans and discounts	15 50 75 00 00 07	Capital paid in
Total \$64,570	90	Total\$64,570 90

## ASOTIN-BANK OF ASOTIN COUNTY.

BEN AYERS, President.			J. B. Jone	:8, Cashi	er.
RESOURCES.			Liabilities.		
Loans and discounts	\$83,784	99	Capital paid in	\$25,000	00
DULUS BIND WAPPANTS	9.590		Surplus fund	5,000	
politicas sand athar committee	2,000	00	Undivided profits	5,918	
Denring Poneo	7,600	00	Deposits subject to check.	90.318	
'4'4'LUFO and fixtnpoe	1,500	00	Demand certificates of de-		
Put Iron henra	44,321	59	posit	1,453	37
doen godin hit & Barrur			Time certificates of de-	•	
ucing.	290	69	posit	39,096	40
	14,320		•		
Lipenses	3,378	95			
Total	<b>\$166,787</b>	45	Total	\$166,787	45

## *ASOTIN- BAUMEISTER, VOLLMER & SCOTT BANK.

RESOURCES.			LIABILITIES.		
Loans and discounts Bonds and warrants. Banking house Furniture and fixtures Due from banks Checks and other cash items	2,121 10,000 2,056 19,134 3,751	18 00 37 34 02 59	Capital paid in	\$15,000 6.863 83,432 28,845 281	89 28 09
Expenses Totals			Totals	<b>\$</b> 134.422	41

[•] Formerly private bank.

E. BAU MEISTER, President.

## ASOTIN COUNTY-CONTINUED.

#### CLARKSTON—STATE BANK OF CLARKSTON.

L. Morris, President.	J. L. TAGGART, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts \$53,518 10	Capital paid in \$15,000 00
Overdrafts 2.230 01	Surplus fund 1,500 00
Bonds and warrants 708 04	Undivided profits 987 85
Banking house 4,700 00	Deposits subject to check 32,548 41
Furniture and fixtures 1,820 20	Demand certificates of de-
Due from banks 9,174 85	posit 937 04
Exchanges for clearing	Time certificates of deposit 12,181 48
house 19 00	Re-discounts 3.000 00
Cash on hand 1,484 58	Bills payable 7,500 00

Total......\$73,654 78 Total.....\$73,654 78

## BENTON COUNTY.

#### *KENNEWICK-BANK OF KENNEWICK.

EMERY OLMSTEAD, Presid	dent.		M. W. MATTECHECI	k, Cashier.
RESOURCES.			LIABILITIES.	
Loans and discounts Overdrafts Stocks and other securities Furniture and fixtures Other real estate owned Checks and other cash items Cash on hand Other Expenses	\$67,322 (796 ) 796 ) 765 (4,332 ) 13,626 ) 178 (95 ) 740 (26,420 )	20 00 15 33 40 71 86	Capital paid in. Undivided profits Deposits subject to check. Cashler's checks Time certificates of deposit Savings deposits Bills payable Special account	\$25,000 00 15,678 06 263 45 1 70 25,000 00 134 03 15,000 00 33,200 07
Total		_	Total	\$114,277 31

^{*} Liquidating.

#### PROSSER-CITIZENS STATE BANK.

C. H. PEARL, President.		GUY H. PEARL, Cashier.		
RESOURCES.		LIABILITIES.	•	
Loans and discounts \$193,995	54	Capital paid in	\$25,000	00
Overdrafts 84		Surplus fund	25,000	
Bonds and warrants 3,754	48	Undivided profits	11.451	
Banking house 12,000	00	Deposits subject to check.	99.342	
Other real estate owned 900	00	Demand certificates of de-		
Due from banks 20,466	23	posit	1.945	20
Exhanges for clearing		Time certificates of deposit	50,326	28
house 1.293	94	Savings deposits	9.204	77
Cash on hand 4,819	62	Bills payable	25,000	00
Interest and expenses 9,955	95	• •		
Totals \$247,270	24	Totals	\$247,270	24

## BENTON COUNTY-CONTINUED.

## PROSSER-PROSSER STATE BANK.

E. Kemp, President.			J. F. Sears, Cashier.		
RESOURCES.			LIABILITIES.		
Stocks and other securities  Ranking house	3,773 1 470 4 5,614 9 4,000 0 5,000 0 4,851 5 6,658 2 437 5 14 8 6,128 8	\$5 94 90 90 52 80 29 57	Capital paid in Surplus fund Undivided profits Due to banks State deposits Deposits subject to check. Demand certificates of deposit Time certificates of deposit Savings deposits Certified checks	\$40,000 10,000 4,273 758 10,000 124,229 2,640 49,439 17,372 200	00 27 35 00 57 60 29 99
Expenses	725 4	44	Total	\$258,914	07

## *RICHLAND-SECURITY STATE BANK.

W. R. Amon, President.	A. L. Nelson, Cashier.
_ RESOURCES.	LIABILITIES.
Loans and discounts     \$38,981     47       Overdrafts     1,490     38       Bonds and warrants     36     25       Banking house     15,000     00       Furniture and fixtures     2,600     00       Iue from banks     12,961     52       Checks and other cash items     129     00       Cash on hand     698     86	Capital paid in       \$20,000       00         Surplus fund       500       00         Undivided profits       430       05         Deposits subject to check       40,882       24         Demand certificates of deposit       10,069       53         Certified checks       15       66
Total \$71,897 48	Total

^{*} Formerly private bank.

## WHITE BLUFFS-FIRST BANK OF WHITE BLUFFS.

L. E. JOHNSON, President.		W. J. KINCAID, Cashier.
RESOURCES.		Liabilities.
Loans and discounts     \$29,059       Overdrafts     565       Bonds and warrants     147       Banking house     3,335       Furniture and fixtures     2,300       Other real estate owned     2,479       Due from banks     14,625       Checks and other cash     80       items     80       Cash on hand     1,890       Expenses     3,321	09 50 42 00 94 61 35	Capital paid in
Total \$57,805	25	Total\$57,805 25

### CHELAN COUNTY.

# CASHMERE-CASHMERE STATE BANK.

Guy	C.	BROWNE.	President.
GUY	U.	DROWNE,	President.

E. F. STOWELL, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts	\$117,863	46	Capital paid in	\$25,000	00
Overdrafts	985	27	Surplus fund	8,000	00
Bonds and warrants	1.029	20	Undivided profits		52
Stocks and other securities			Postal savings deposits	557	
Banking house			Deposits subject to check.	101.271	
Furniture and fixtures	3,000		Demand certificates of de-	101,211	٠.
Other real estate owned	14.798		posit	328	07
Due from banks	21.638		Time certificates of de-	020	٠.
Checks and other cash	21,000	01	posit	17.162	52
	000	10			
items	826		Savings deposits	9,915	
Cash on hand	3,753	22	Certified checks	342	50
Expenses	6.498		Re-discounts	2,500	00
Dipenses	0,200	00		10.000	
			Bills payable	10,000	vu
<b>_</b>	****			*****	
Total	\$182,988	54	Total	<b>\$182,988</b>	54

#### CASHMERE-FARMERS & MERCHANTS BANK.

J	OHN	C.	LILLY,	President.
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### C. D. HALFERTY, JR., Cashier.

		LIABILITIES.		
		Capital paid in Surplus fund		
	00	Undivided profits	975	11
			135,979	76
4,909	05	Demand certificates of de-		
5.242	52	posit	1,146	49
16,472	97	Cashier's checks	1,452	96
		Time certificates of de-		
1.953	74	posit	17.164	68
			11.307	01
,		Bills payable	15,000	00
\$215,526	01			
	864 1,000 14,266 4,909 5,242 16,472 1,953 6,073	1,000 00 14,266 08 4,909 05 5,242 52 16,472 97 1,953 74	\$164,743 65	\$164,743 65

### CHELAN-MINERS & MERCHANTS BANK.

### J. A. VANSLYKE, President.

### H. W. VANSLYKE, Cashier.

J. A. VANDELKE, 1708-00-10.	11. W. VANDELKE, OWNIE			
RESOURCES.		LIARILITIES.		
Banking house         10,           Furniture and fixtures         2.           Other real estate owned         6,           Due from banks         40,           Cash on hand         8,	690 75 746 37 000 00 250 00 308 01 288 24 073 75 648 15	Capital paid in	22,000 4,360 555 90,669 15,423 28,358 3,632	00 10 25 72 83 25
Total \$190	005 27	Total		

# CHELAN COUNTY—CONTINUED.

#### ENTIAT-ENTIAT STATE BANK.

HARMON WILCOX, President.	J. R. KENNEDY, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts     \$31,143     24       Overdrafts     712     64       Banking house     2,000     00       Furniture and fixtures     2,000     00       Due from banks     23,770     82       Checks and other cash items     17     39       Cash on hand     2,096     65       Expenses     2,221     92	Capital paid in
Totals\$63,962 66	Totals\$63,962 66

#### LEAVENWORTH-LEAVENWORTH STATE BANK.

F.	A.	SINCLAIR	President.
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R. B. FIELD, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts Oredrafts Bonds and warrants Stocks and other securities Banking house Furniture and fixtures. Other real estate owned. Due from banks. Checks and other cash litms Cash on band	1,201 5,846 2,599 11,126 7,451 4,128 23,434	71 35 15 59 20 90 09	Capital paid in	5,000 4,833 154,722 3,936	00 43 91 13
Interest and expenses	3,564				
Total		17	Total	\$281,487	17

### WENATCHEE-COLUMBIA VALLEY BANK.

act C. E	BOWNE, I	President.
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CHAS. E. OWENS, Cashier.

RESOURCES.			LIABILITIES.	
Overdrafts discounts	\$466,123	81	Capital paid in \$100,000	00
Overdrafts Bonds	1,360	27	Surplus fund 20,000	00
Bonds and warrants	27,472		Undivided profits 19,370	
Stocks and other securities	7,089	91	Dividends unpaid 174	00
Banking house	60,643	11	Due to banks 47,514	30
Other real and fixtures	6,624	75	Postal savings deposits 5,532	02
Other real estate owned	6,685	84	State deposits 50,000	00
Due from banks	144,584	26	Deposits subject to check. 392,181	04
Checks and other cash			Demand certificates of de-	
items	3,912	03	posit 4,105	56
Cash on hand	27,329	50	Cashier's checks 586	95
Expenses	15,570	96	Time certificates of de-	
	-		posit 21,670	77
			Savings deposits 105.561	12
	•		Certified checks 700	00
Total	\$787 30A	70	Total \$787.398	70

### CHELAN COUNTY-CONTINUED.

### WENATCHEE-COMMERCIAL BANK & TRUST COMPANY.

FRANK W. SHULTZ, President.	DAVID HOLMBERG, Cashier.		
RESOURCES.	LIABILITIES.		
Loans and discounts       \$245,633 68         Overdrafts       582 68         Bonds and warrants       8,18 98         Furniture and fixtures       13,000 00         Other real estate owned       21,000 00         Due from banks       72,130 60         Checks and other cash items       11,648 99         Cash on hand       7,485 69	Capital paid in       \$50,000       00         Surplus fund       2,500       00         Undivided profits       989       98         Deposits subject to check       259,696       22         Demand certificates of deposit       14,362       08         Time certificates of deposit       953       40         Time certificates of deposit       10,685       45         Savings deposits       40,388       46         Certified checks       95       90		
Total\$379,671 49	Total\$379,671 49		

# CLALLAM COUNTY.

#### PORT ANGELES-BANK OF CLALLAM COUNTY.

H. E. Lutz, President.	S. J. Lutz, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts \$234,930 59	Capital paid in \$25,000 00
Overdrafts 96 68	Surplus fund 6,500 00
Bonds and warrants 37,726 14	Undivided profits 6.140 17
Furniture and fixtures 1.900 00	Postal savings deposits 3.633 71
Other real estate owned 3.170 00	Deposits subject to check. 219,410 54
Due from banks 57,895 13	Demand certificates of de-
Checks and other cash	posit 6,156 72
items 422 71	Cashier's checks 18,764 83
Exchanges for clearing	Time certificates of de-
house 1.611 14	posit 57,874 75
Cash on hand 22,577 63	Savings deposits 21,039 53
Interest and expenses 4,352 86	Certified checks 162 63
Total\$364,682 88	Total\$364,682 88

#### PORT ANGELES-PORT ANGELES TRUST & SAVINGS BANK.

R. D. WILLSON, President.		BENJ. N. PHILLIPS, Cashier.			
RESOURCES.			LIABILITIES.		
Loans and discounts	\$83,955	25	Capital paid in	\$25,000	00
Overdrafts	54		Undivided profits	5,326	53
Bonds and warrants	15,984	21	State deposits	10,000	00
Furniture and fixtures	2,427		Deposits subject to check.	53,690	05
Due from banks	9,529	52	Demand certificates of de-	•	
Checks and other cash	-,	-	posit	173	56
items	6.402	83	Cashier's checks	400	10
Exchanges for clearing	-,		Time certificates of de-		
house	643	02	posit	27,295	40
Cash on hand	9.258	70	Savings deposits	12,727	
Expenses and interest	6,457		Certified checks	100	
Total	\$134,712	99	Total	\$134,712	99

# CLALLAM COUNTY-CONTINUED.

#### SEQUIM-STATE BANK OF SEQUIM.

### H. J. Bugge, President.

#### R. W. SCHUMACHER, Cashier.

H. C. COBNELL, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts Overdrafts Bonds and warrants Banking house Furniture and fixtures. Other real estate owned. Due from banks	271 12.585	78 52 00 00 00	Demand certificates of de- posit	2,000 893 1,056 48,521	00 73 04 95 26
Checks and other cash items	254 3,658 253	$\overline{04}$	Time certificates of deposit Savings deposits	7,259 4,373	
Total	\$75,671	30	Total\$7	75,671	30

### CLARKE COUNTY.

### *BATTLE GROUND-STATE BANK OF BATTLE GROUND.

RESOURCES.			LIABILITIES.	
Loans and discounts. Overdrafts Ronds and warrants Banking house Furniture and fixtures Other real estate owned. Due from banks Cash on hand Expenses	167 1,342 3,000 1,725 800 6,152	98 46 00 00 00 60 12	Capital paid in\$10,000 Undivided profits	97 86 26
Total		54	Total\$31,600	54

^{*} Formerly private bank.

FRED ELLIS, President.

#### LaCENTER-LaCENTER STATE BANK.

W. A. MANSFIELD, President.	C. A. Button, Cashier.		
_ RESOURCES.	T.TABILITIES.		
Leans and discounts       \$32,160       39         Bonds and warrants       5,371       99         Banking house       2,2537       85         Furniture and fixtures       1,967       53         Due from banks       9,710       39         Cash on hand       4,371       15         Expenses       1,572       86	Capital paid in		
Total\$57,692 16	Total\$57,692 16		

# CLARKE COUNTY—CONTINUED.

### RIDGEFIELD-RIDGEFIELD STATE BANK.

E. L. THOMPSON, President.	E. A. BLACKMORE, Cashier.		
RESOURCES.	LIABILITIES.		
Loans and discounts.       \$38,270       66         Overdrafts       1,802       75         Bonds and warrants       2,195       25         Furniture and fixtures       720       00         Due from banks       10,125       87         Cash on hand       1,533       93         Expenses       2,449       75	Capital paid in		
Total\$57,098 21	Total \$57,098 21		

### VANCOUVER-WASHINGTON EXCHANGE BANK.

### O. F. Zumsteg, Cashier.

resources.			LIABILITIES.		
Loans and discounts \$	138,498	45	Capital paid in	\$50,000	00
Bonds and warrants	78,620	90	Surplus fund	1,000	00
Banking house	25,000	00	Undivided profits	7,192	83
Furniture and fixtures	6,000	00	Postal savings deposits	4.661	12
Other real estate owned	1,742	05	Deposits subject to check.	209,920	38
Due from banks	47,545	24	Demand certificates of de-		
Exchanges for clearing			posit	1,079	
house	1,067	80	Cashier's checks	116	28
Cash on hand	12,360		Time certificates of de-		
Expenses	1,658	37	posit	11,174	50
•			Savings deposits	27,264	
			Certified checks	83	63
Total\$	312,493	01	Total	\$312,493	01

### WASHOUGAL-CLARKE COUNTY BANK.

# THOS. S. KEEP, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts	\$51.482	24	Capital paid in	\$15,000	00
Overdrafts	32		Surplus fund	1,000	
Bonds and warrants	11.355		Undivided profits	5.596	
Stocks and other securities	500	vv	Postal savings deposits	1,837	10
Banking house	3.300	00	Deposits subject to check.	64.212	19
Furniture and fixtures	2.138	35	Demand certificates of de-		
Other real estate owned	275			0.074	00
			posit	2,074	00
Due from banks	30,378	20	Time certificates of de-		
Checks and other cash			posit	21.362	80
	14	OF	posit	21,002	00
items					
Cash on hand	6.810	80			
Expenses	4,796	99			
Mapenece	2,100	-			
Total	<b>3</b> 3111 083	XX.	Total	ST111 083	22

# CLARKE COUNTY—CONTINUED.

### YACOLT-FIRST STATE BANK OF YACOLT.

C. F. HENDRICKSEN, President.	C. JORGEN OLSON, Cashier.			
RESOURCES.	LIABILITIES.			
Loans and discounts	Capital paid in			
Total \$52,738 90	Total \$52,738 90			

# COLUMBIA COUNTY.

# STARBUCK-BANK OF STARBUCK.

M. C. ZINTHEO, Cashier.			
\$25,000			
5,000	00		
6,857	90		
1,194	39		
68,847	83		
378			
15,426	94		
•			
\$122,705	56		
	. \$122,705		

## COWLITZ COUNTY.

# CASTLE ROCK-THE CASTLE ROCK BANK.

# J. A. Byerly, President. G. L. Buland, Cashier.

resources.		LIABILITIES.		
Loans and discounts       \$140,303         Overdrafts       132         Bonds and warrants       12,526         Banking house       35,000         Due from banks       68,531	81 36 00	Capital paid in	25,000 5,969 1,481	00 68 75
Checks and other cash         241           cash on hand         5,775           Expenses         950	31	Time certificates of de- posit	32,580	79
Total \$263,460	84	Total	\$263,460	84

# COWLITZ COUNTY—CONTINUED.

### KALAMA-COWLITZ COUNTY BANK.

L. F. IMUS, President.	J. P. ATKIN, Cashier.			
RESOURCES.		LIABILITIES.		
Loans and discounts \$125,130	46	Capital paid in	\$25,000	00
Overdrafts 1,676	27	Surplus fund	10,000	00
Bonds and warrants 16,884	75	Undivided profits		87
Banking house 1,000	00	Dividends unpaid	100	00
Furniture and fixtures 1.200	00	Postal savings deposits	9,426	35
Other real estate owned 700	00	Deposits subject to check.	85,700	
Due from banks 6.842		Demand certificates of de-	,	
Checks and other cash		posit	984	75
items 1.724	38	Cashier's checks	1.854	00
Cash on hand 11,978		Time certificates of de-	-,	
Expenses 2,922	92	posit	16.303	71
		Bills payable		
Total \$170.059	76	Total	\$170,059	76

### KELSO-KELSO STATE BANK.

F. W. CAROTHERS, Preside	nt.		F. L. STEWAR	T, Cashi	er.
RESOURCES.			LIABILITIES.		
Furniture and fixtures Other real estate owned Due from banks Checks and other cash items Cash on hand	2,377 9,719 296 25,040 9,012	55 08 53 49 58 83 29 67 42	Capital paid in. Surplus fund Undivided profits Due to banks. Postal savings deposits. State deposits Deposits subject to check Demand certificates of deposit Cashier's checks Time certificates of deposit Savings deposits Certified checks Re-discounts Bills payable	25,000 19,586 3.525 2,777 25,000 162,328 11,428 756 43,558 15,302	00 35 59 58 00 78 40 79 88 97 80 00
Total\$3	47,170	14	Total	\$347,170	14

### WOODLAND-WOODLAND STATE BANK.

L. N. Plamondon, President.	GEO. E. COCHRANE, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts \$100,724 19	Capital paid in \$25,000 00
Overdrafts 36 96	Surplus fund 1,350 00
Bonds and warrants 5.494 77	Undivided profits 3,613 59
Banking house 3,578 56	Deposits subject to check. 81,412 92
Furniture and fixtures 2.543 75	Demand certificates of de-
Other real estate owned 4,664 79	posit 1.455 63
Due from banks 13,328 35	Cashier's checks 2,058 54
Checks and other cash	Time certificates of de-
items 821 89	posit 18,548 64
Cash on hand 3,514 32	Certified checks 19 00
Expenses 2,450 74	Other 3,700 00
Total\$137,158 32	Total\$137,158 32

# DOUGLAS COUNTY.

#### BRIDGEPORT—BRIDGEPORT STATE BANK.

### S. D. SANDERS, President.

T. J. EAST, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts		55	Capital paid in	\$15,000	00
Overdrafts	311	67	Surplus fund	6,000	
Bonds and warrants		67	Undivided profits	4,241	54
Furniture and fixtures	2,300	00	Deposits subject to check.	50,751	56
Due from banks			Demand certificates of de-	,	
Checks and other cash	,		posit	1.515	86
items	3	23	Time certificates of de-		
Cash on hand			posit	13.948	64
Expenses			Bills payable		
Total	\$101,457	60	Total	\$101,457	60

#### MANSFIELD-MANSFIELD STATE BANK.

### W. N. Long, President.

L. H. MERITT, Cashier.

· ·					
RESOURCES.			LIABILITIES.		
Loans and discounts	\$174,108	06	Capital paid in	\$25,000	00
Overdrafts	4.629	52	Surplus fund	10.000	00
Bonds and warrants	1.210	00	Undivided profits	11.371	84
Banking house	6,000		Due to banks	2.208	
Furniture and fixtures	2,000		Deposits subject to check.	116.648	
I've from banks	5,132		Demand certificates of de-		-
Checks and other cash	0,102	•-	posit	4.472	10
items	3.185	92	Time certificates of de-	-,	
Cash on hand	4.328		posit	14,873	08
Expenses	6,479		Bills payable		
Total		45	Total	\$207,074	45

### WATERVILLE-DOUGLAS COUNTY BANK.

# M. E. LIES, President.

### C. S. VALENTINE, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts	\$333,983	68	Capital paid in	\$30,000	00
**************************************	2 154	89	Surplus fund	10.000	
		08	Undivided profits	25,357	56
		00	Due to banks	3,973	11
		00	Deposits subject to check.	224,457	02
		60	Demand certificates of de-		
	83,207	77	posit	26,924	88
			Time certificates of de-		
	884	95	posit	56,288	94
		30	Savings deposits	66,261	51
Expenses	7,252	65	Bilis payable	11,507	90
Total	\$454,770	92	Total	\$454,770	92

## DOUGLAS COUNTY-CONTINUED.

### WATERVILLE-THE WATERVILLE SAVINGS BANK.

#### C. T. HANSEN, President.

GEO. P. WILEY, Cashier.

RESOURCES.		LIABILITIES.		
Loans and discounts \$249,234	54	Capital paid in	\$50,000	00
Overdrafts	71	Surplus fund	8,000	00
Bonds and warrants 3,910	31	Undivided profits	21,184	44
Furniture and fixtures 3,000	00	Postal savings deposits	716	86
Due from banks 29,580	32	Deposits subject to check.	91,134	17
Checks and other cash		Demand certificates of de-		
items 713		posit	11,090	74
Cash on hand 10.518	20	Time certificates of de-	-	
Expenses 12,386	48	posit	56,682	13
-		Savings deposits	51,898	49
		Bills payable	20,000	00
Total\$310,706	83	Total	\$310,706	83

#### WITHROW-WITHROW STATE BANK.

### F. E. WESTON, President.

L. A. WESTON, Cashier.

RESOURCES.		LIABILITIES.		
	12	Capital paid in	300	00
Bonds and warrants 2,802 Furniture and fixtures 1,600 Due from banks 12,530	00	Undivided profits Deposits subject to check. Demand certificates of de-	10,410 60,613	
Checks and other cash	60	posit	4,308 1,977	
Cash on hand		Time certificates of de- posit	23,903	82
		Savings deposits Bills payable		
Total\$140.716	69	Total	\$140.716	69

# FERRY COUNTY.

### ORIENT-THE ORIENT STATE BANK.

E. A. AKERLY, President.	P. H. Blom, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts \$31,804 77	Capital paid in\$10,000 00
Overdrafts 437 56	
Bonds and warrants 6.312 38	
Banking house 1,700 00	State deposits 4,939 82
Furniture and fixtures 1,723 65	
Other real estate owned 367 53	
Due from banks 3.823 16	3,194 55
Checks and other cash	Savings deposits 1,654 85
items	
Cash on hand 1,650 05	
Expenses 3,001 71	
Total\$50,954 36	Total\$50,954 36

# FERRY COUNTY—CONTINUED.

### REPUBLIC-FERRY COUNTY STATE BANK.

P. H. Walsh, President.	Jos. L. Walsh, Cashier.		
RESOURCES.	LIABILITIES.		
Loans and discounts       \$89,771       70         Overdrafts       16       66         Bonds and warrants       53,813       68         Banking house       800       00         Furniture and fixtures       1,587       00         Due from banks       19,313       32         Cash on hand       11,975       38         Expenses       8,404       56         Other       446       45	Capital paid in       \$25,000 00         Surplus fund       15,000 00         Undivided profits       11,836 91         Postal savings deposits       6,328 01         Deposits subject to check       113,571 81         Demand certificates of deposit       22 90         Cashier's checks       449 79         Time certificates of deposit       13,834 33         Certified checks       85 00		
Total\$186,128 75	Total\$186,128 75		

# FRANKLIN COUNTY.

# CONNELL-FARMERS STATE BANK.

C. W. NELSON, President.		J. B. HELMICK, Cashier.
RESOURCES.		LIABILITIES.
Overdent and discounts\$68,432	30	Capital paid in \$10,000 00
	07	I'ndivided profits 910 04
Bonds and warrants 17	75	Deposits subject to check. 36,004 47
Furniture and fixtures 1,033	37	Demand certificates of de-
Exchange and nxtures	68	posit 100 00
		Cashier's checks
house 27	42	Time certificates of de-
Cash on hand 2,489	67	posit
Expenses	49	Bills payable 30,000 00
Totai	75	Total\$79,874 75

### CONNELL—STATE BANK OF CONNELL.

J. H. Schlomer, President.	W. H. MILLER, Cashier.		
RESOURCES.	LIABILITIES.		
Overdram and discounts \$140,921 59	Capital paid in \$15,000 00		
Overdrafts \$140,921 59 Republished to the state of	Surplus fund 3,000 00		
Ranking house 7,575 00	Undivided profits 9,030 48		
Purniture and fixtures 2,745 00 Other real estate owned 2,881 49	Deposits subject to check. 80,899 02		
Other real estate owned. 2,381 49	Demand certificates of de-		
Due real estate owned. 2,381 49 Checks and other cash	posit		
Checks and other cash	Cashler's checks 428 30		
Cash on total 20	Time certificates of de-		
Cash on hand 51 40 Expenses 5 461 70	posit		
Expenses 6,910 30 5,461 70	Certified checks 409 75		
3,11,11,11,11,11,11,11,11,11,11,11,11,11	Bills payable 36,000 00		
Total\$177,423 49	Total\$177,423 49		

# FRANKLIN COUNTY—CONTINUED.

#### ELTOPIA-ELTOPIA STATE BANK.

ROBERT JAHNKE, President.	W. C. BANNERMAN, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts	Capital paid in
	Bills payable 2,500 00
Total\$43,663 35	Total\$43,663 35

### PASCO-BANK OF PASCO.

J. B. CRAIN, President.		E. W. LANDT, Cashier.		T, Casnier.
RESOURCES.			LIABILITIES.	
Loans and discounts Overdrafts Bonds and warrants Stocks and other securities Banking house Furniture and fixtures. Other real estate owned. Due from banks Checks and other cash items Exchanges for clearing house Cash on hand	\$82,292 285 8,572 1,412 14,000 3,500 10,258 8,973 1,123 556 9,442	28 51 66 00 00 38 70 78 56	Capital paid in	\$50,000 00 2,500 00 12,399 49 1,390 42 10,000 00 50,652 22 1,101 49 3,983 16 12,201 27 4,000 00
Total	7,810 \$148.228		Total	\$148.228 05
	¥-10,0	•••	2002	<b>4-10</b> , 1-

# GARFIELD COUNTY.

### *POMEROY-KNETTLE STATE BANK.

N. D. KNETTLE, President.	L. N. Knettle, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts \$261,116 30	Capital paid in \$50,000 00
Bonds and warrants 802 90	Undivided profits 3,984 06
Furniture and fixtures 500 00	Deposits subject to check, 196,491 23
Due from banks 37,635 29	Demand certificates of de-
Checks and other cash	posit 12,863 91
items 2.364 15	Time certificates of de-
Cash on hand 18,432 19	posit 57,511 63
Total\$320,850 83	Total\$320,850 83

[•] Formerly private bank.

# GARFIELD COUNTY—CONTINUED.

### POMEROY-POMEROY STATE BANK.

R. L. Rush, President.		W. B. Morris, Cashier.
RESOURCES.		LIABILITIES.
Loans and discounts       \$664,932         Overdrafts       304         Bonds and warrants       2,674         Banking house       7,000         Due from banks       156,378         Checks and other cash items       15         Cash on hand       23,407         Expenses       4,324	47 04 00 30 00 32	Capital paid in
Total\$859,036	40	Total \$859,036 40

# GRANT COUNTY.

### COULEE CITY-COULEE STATE BANK.

JAMES Howell, President.		J. B. Peterso	n, Cashi	er.
RESOURCES.		LIABILITIES.		
Loans and discounts.       \$141,555         Overdrafts       2,095         Bonds and warrants.       3,171         Other real estate owned       27,694         Due from banks.       33,035         Checks and other cash items       441         Cash on hand.       10,036         Emergence       10,036	29 41 81 75 85	Capital paid in	\$25,000 5,000 10,679 9,283 108,018 17,071	00 70 48 35
Expenses 6,573		posit	37,520 2,030 10,000	53
Total\$224,603	99	Total	\$224,603	99

### EPHRATA-GRANT COUNTY BANK.

E. C. DAVIB, President.			J. T. WILKIN	s, Cashi	er.
resources.			LIABILITIES.		
Loans and discounts. Overdrafts Bonds and warrants Bonking house Furniture and fixtures Cash On hand	22,190 7,368 4,977	11 83 50 12 49	Capital paid in	250 1,516 461 504 114,142 17,493 2,381	00 46 40 21 85 68 54
Total	\$154,133	69	Total		

# GRANT COUNTY-CONTINUED.

#### HARTLINE-HARTLINE STATE BANK.

H. T. Jones, President.		MAY S. JONE	s, Cashi	er.
RESOURCES.		LIABILITIES.		
Bonds and warrants 5,	962 78 953 45 615 50 140 00	Capital paid in	\$25,000 5,000 8,074 3,927	00 73
Furniture and fixtures 1, Due from banks 32,	902 55 653 27	Deposits subject to check. Demand certificates of de-	116,169	54
Checks and other cash items Exchanges for clearing	359 07	posit	17,666	22
house	229 68 021 55			

### KRUPP-FARMERS BANK OF KRUPP.

Total......\$175,837 85 Total......\$175,837 85

M. A.	WILEY, President.		B. F. PAF	r, Cashier.
	RESOURCES.		LIABILITIES.	
Logne	and discounts	288 883 18	Canital naid in	\$10,000,00

Loans and discounts	\$88,883	18	Capital paid in	\$10,000	00
Overdrafts			Surplus fund	4,000	00
Bonds and warrants		32	Undivided profits	3,391	35
Banking house	2.000	00	Due to banks	1,155	63
Furniture and fixtures	1,600	00	Deposits subject to check.	56,275	40
Other real estate owned	966	97	Demand certificates of de-		
Due from banks	7,228	34	posit	2,251	35
Checks and other cash			Time certificates of de-		
items	7	75	posit	21,808	
Cash on hand	3.139	98	Certified checks	39	50
Expenses		64	Bills payable	10,000	00
Total	\$108,921	50	Total	\$108,921	50

### QUINCY-QUINCY VALLEY STATE BANK.

## G. E. SANDERSON, President.

#### R. C. WIGHTMAN, Cashier.

resources.			LIABILITIES.		
Loans and discounts	\$66,808	85	Capital paid in	\$10,000	00
Overdrafts	636	83	Surplus fund	2,500	00
Bonds and warrants	10,280	67	Undivided profits	919	54
Stocks and other securities	316	24	Due to banks	4.556	03
Banking house	2.000	00	Deposits subject to check.	65.231	22
Furniture and fixtures	1.500	00	Demand certificates of de-		
Other real estate owned	1.288	30	posit	3.921	79
Due from banks	15.299	86	Cashier's checks		65
Checks and other cash			Time certificates of de-	_	
items	111	04	posit	14.124	25
Cash on hand	3.515	50	Savings deposits	499	81
	-,		Certified checks	1	ÕŌ
Total	\$101,757	29	Total	\$101,757	29

# GRANT COUNTY-CONTINUED.

### RUFF-RUFF STATE BANK.

M. A. WILEY, President.	T. R. AMENDE, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts \$73,068 81	Capital paid in\$10,000 00
Overdrafts 2,576 69	Surplus fund 1,500 00
Bonds and warrants 80 83	Undivided profits 3,634 45
Banking house 1,400 00	Deposits subject to check 55,653 76
Furniture and fixtures 1,400 00	Demand certificates of de-
Due from banks 5,111 23	posit
Checks and other cash	Time certificates of de-
items	posit 10,703 97
Cash on hand	Certified checks 7 00
Expenses	Bills payable 5,000 00
Total\$88,144 83	Total\$88,144 83

### WARDEN-WARDEN STATE BANK.

CHAS. LINDENBERG, President.	1. H. MULLOWNEY, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts\$34,594 21	Capital paid in \$10,000 00
Overdrafts	Surplus fund 2,500 00
bonds and warrants 5.426 55	Undivided profits 1,240 02
Banking house 1,870 00	Deposits subject to check 23,447 00
Furniture and fixtures 1,727 03	Demand certificates of de-
Other real estate owned 2,364 25	posit 7,389 43
Due from banks 2,232 66	Bills payable 5,000 00
Checks and other cash	Dina payable
items 102 35	
Cash on hand	
va aang 100 00	
Total\$49,576 45	Total\$49,576 45

### WHEELER-WHEELER STATE BANK.

E. C. DAVIS, President.		J. E. Bassett, Cashier.
RESOURCES.		LIABILITIES.
Loans and discounts   \$39,083	70 03 00 50 08	Capital paid in       \$10,000 00         Undivided profits       372 75         Deposits subject to check       32,384 96         Demand certificates of deposit       8,402 50         Cashier's checks       15 00         Bills payable       3,000 00
Total\$54,175	21	Total \$54,175 21

# GRANT COUNTY-CONTINUED.

### WILSON CREEK-WILSON CREEK STATE BANK.

Donald Urquhart, Presid	lent.		T. CLAUD BENNET	r, Cashi	er.
RESOURCES.			LIABILITIES.		
Loans and discounts	\$91,244 29 6,409 5,000 1,922 1,800 12,998	81 64 00 50 61	Capital paid in	\$15,000 3,000 4,773 56,796 2,106	00 27 20
Checks and other cash items	160 2,890 368	00 18	posit	41,147	42
Total	122,823	44	Total	122,823	44

## GRAYS HARBOR COUNTY.

### ABERDEEN-ABERDEEN STATE BANK.

aent.		G. W. RIPLE	Y, Uashi	er.
		LIABILITIES.		
\$129.817	45	Capital paid in	\$25,000	00
			6.096	
	28	Due to banks	9.536	35
	16	Deposits subject to check.	76.930	
4.490	25	Demand certificates of de-		
		posit	3.990	98
		Time certificates of de-		
3,387	17	posit	10.558	85
	65	Savings deposits	70,002	
	50	<b>5</b> -	•	
\$202,115	44	Total	\$202,115	44
	\$129,817 501 18,856 6,913 4,490 24,809 3,387 7,032 6,307	\$129,817 45 501 84 18,856 28 6,913 16 4,490 25 24,809 14 3,387 17 7,032 65	\$129,817 45	\$129,817 45 Capital paid in

### ABERDEEN-HAYES & HAYES, BANKERS.

F. B. PATTERSON, President.		W. J. PATTERSON, Cash	167.
RESOURCES.		LIABILITIES.	
Loans and discounts\$1,740,373 Bonds and warrants 114,258 Banking house 42,103 Other real estate owned. 6,930 Iwe from banks 505,210 Checks and other cash Items 8,532 Exchanges for clearing	42 73 83 07	Capital paid in	00 55 00 71 24 00
house	00	Demand certificates of deposit	18 82 04 18
Total\$2,534,842	65	Total\$2,534,842	

# GRAYS HARBOR COUNTY—CONTINUED.

#### ABERDEEN-UNITED STATES TRUST COMPANY.

#### W. J. PATTERSON. President.

### R. C. VANDEVORT, Cashier.

resources.			LIABILITIES.		
Loans and discounts	\$200,219	27	Capital paid in	\$50,000	00
Overdrafts	79		Surplus fund	10,000	
Bonds and warrants	80.681	77	Undivided profits	9.002	
Stocks and other securities	785	00	Due to banks	48.346	
Furniture and fixtures		00	Postal savings deposits	42,150	
Other real estate owned	15,176	00	Deposits subject to check.	144,799	20
Due from banks	32,599	29	Demand certificates of de-	,	
Checks and other cash	,		posit	2.035	00
items	246	66	Cashier's checks	27	
Exchanges for clearing			Time certificates of de-		
house	4.738	45	poslt	10,818	65
Cash on hand	11,935		Savings deposits	50.136	
Expenses	3,352		Davingo deposito il il il	00,200	
Total	\$367,314	93	Total	\$367,314	93

### ELMA-BANK OF ELMA.

# A. D. DEVONSHIBE, President.

### E. L. FRANCE, Cashier.

RESOURCES.		LIABILITIES.		
Bonds and warrants 7.286 Banking house 5,500 Furniture and fixtures 500 Other real estate owned 2,000 Due from banks 22,000	3 13 9 30 9 00 9 00 9 00	Capital paid in	10,000 4,297 2,400	00 72 74 39
Checks and other cash items         4,856           Cash on hand         11,886           Expenses         2,487	05	Time certificates of deposit	772	75
Total\$206,938	67	Total	\$206,938	67

#### ELMA-FARMERS' & LUMBERMEN'S BANK.

# H. McCleary, President.

#### W. L. BOOMER, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts Bonds and warrants. Furniture and fixtures. Due from banks. Kichanges for clearing house. Cash on hand. Expenses	\$89,377 7,139 3,000 24,328 101 15,437 6,528	56 00 39 80 51	Capital paid in Surplus fund Undivided profits Postal savings deposits State deposits ubject to check. Demand certificates of deposit Time certificates of deposit Savings deposits	\$20,000 5,000 8,285 1,148 10,000 55,346 1,081 9,514 35,537	00 11 17 00 21 85
Total	<b>\$</b> 145,913	39	Total	\$145,913	39

## GRAYS HARBOR COUNTY-CONTINUED.

#### HOQUIAM-LUMBERMAN'S BANK.

#### W. E. FERREBEE, President.

R. E. DAWDY, Cashier.

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RESOURCES.			LIABILITIES.	
Loans and discounts	\$268,228	13	Capital paid in \$100,000	00
Overdrafts			Surplus fund 12,000	
Bonds and warrants		62	Undivided profits 8,648	33
Stocks and other securities			Due to banks 6.874	
Banking house			Postal savings deposits 8,179	
Furniture and fixtures			Deposits subject to check. 278.105	
Other real estate owned			Demand certificates of de-	
Due from banks			posit	26
Checks and other cash	101,022	•••	Time certificates of de-	
Items	869	20	posit 59,200	93
Exchanges for clearing	300	00	Savings deposits 94,215	
	1 000	70		
house			Re-discounts 2,100	w
Cash on hand	48,217	50		
Total	\$572,120	26	Total \$572,120	26

### MONTESANO-MONTESANO STATE BANK.

### A. D. DEVONSHIRE, President.

W. H. FRANCE, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts \$334			Capital paid in	\$50,000	00
Overdrafts	61	50	Surplus fund	50.000	00
	3.940	53	Undivided profits	10.144	93
Stocks and other securities	458	63	Due to banks	18.775	49
	5.000	00	State deposits	25,000	
	2.210	20	Deposits subject to check.	179,182	
	1.765		Demand certificates of de-	,	••
Checks and other cash	.,	• •	posit	217,290	57
	2.646	89	Cashier's checks	543	
	314		Cucator b cuccus (1111111)	010	٠.
	2,162				
Total\$550	),937	51	Total	\$550,937	51

### OAKVILLE-OAKVILLE STATE BANK.

### WM. T. PERKINS, President.

C. C. SCATES, Cashier.

RESOURCES.		LIABILITIES.		
Loans and discounts Bonds and warrants Banking house Furniture and fixtures Due from banks Cash on hand	\$24,659 57 9,951 13 5,600 00 850 00 4,195 28 1,740 49	Capital paid in	900 777 28,005	00 88
Expenses	2,296 99	Time certificates of deposit	4,635 4,965	24
	\$49,293 46	Total	\$49,203	46

# ISLAND COUNTY.

#### LANGLEY-LANGLEY STATE BANK.

CHAS. E. FEEK, President.		James C. Langley, Cashier.	•
RESOURCES.		LIABILITIES.	
Loans and discounts     \$27,917       Overdrafts     617       Bonds and warrants     5,423       Banking house     2,600       Furniture and fixtures     1,778       Other real estate owned     910       Due from banks     2,637       Checks and other cash items     21       Cash on hand     593       Expenses     3,347	04 81 00 10 27 22	Capital paid in       \$10,000 00         Surplus fund       1,000 00         Undivided profits       2,943 45         Deposits subject to check       20,989 45         Demand certificates of deposit       324 25         Time certificates of deposit       5,712 48         Savings deposits       1,077 36         Certified checks       60 00         Re-discounts       739 88         Bills payable       3,000 00	5 5 8 6 0 8
Total \$45,846	87	Total\$45,846 87	_

## OAK HARBOR-OAK HARBOR STATE BANK.

ROBT. MOODY, President.	J. M. PRATT, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts	Capital paid in
Expenses	Total\$67,737 48

### JEFFERSON COUNTY.

# PORT TOWNSEND-MERCHANTS BANK OF PORT TOWNSEND.

W. M. LADD, President.	N. C. Strong, Cashier		
RESOURCES.	LIABILITIES.		
Loans and discounts       \$415,018       63         Overdrafts       609       24         Bonds and warrants       108,987       01         Due from banks       95,687       66         Checks and other cash items       482       38         Cash on hand       27,390       97         Expenses       49       71	Capital paid in		
Total\$648,175 60	Total\$648,175 60		

### KING COUNTY.

### *AUBURN-CITIZENS STATE BANK.

A. C. MACCALLUM, President.			WARD M. CARTE	R, Cashi	er.
RESOURCES.			LIABILITIES.		
Loans and discounts	\$70,916	12	Capital paid in	\$50,000	00
Overdrafts	561		Undivided profits	7,664	
Bonds and warrants	1.928	12	Deposits subject to check.	56.019	
Banking house	27,680		Demand certificates of de-	• -,	
Furniture and fixtures	3.921		posit	260	00
Due from banks	4.877	36	Time certificates of de-		
Checks and other cash	-,		posit	1.747	00
items	216	37	Savings deposits	5.665	24
Cash on hand	4.033		Certified checks	270	
Expenses	7,490	58			
Total	\$121,626	20	Total	\$121,626	20

^{*} Authorized December, 1914.

#### *BELLEVUE-STATE BANK OF BELLEVUE.

W. L. Collier, President.		D. E. BIGELOW, (	Iashi	er.
RESOURCES.		LIABILITIES.		
Loans and discounts       \$16,913         Overdrafts       1,097         Bonds and warrants       1,097         Furniture and fixtures       653         Due from banks       7,656         Cash on hand       837         Expenses       1,945	52 10 65 82 49	Undivided profits Deposits subject to check 1 Demand certificates of deposit Cashier's checks	0,000 1,000 1,196 5,513 32 53	00 57 40 00
		Time certificates of deposits	100 1,191 15	88
Total \$29.103	76	Total\$2	9,103	76

^{*} Authorized in November, 1914.

W. R. PHILLIPS, President.

### BLACK DIAMOND-STATE BANK OF BLACK DIAMOND.

JOHN M. LEE, Cashier.

RESOURCES.		LIABILITIES.
Loans and discounts \$28,228	26	('apital paid in \$12,000 00
Bonds and warrants 6,964		Surplus fund 1.144 60
Furniture and fixtures 2.118	66	Undivided profits 2,657 19
Other real estate owned 7.300	00	Deposits subject to check 18,559 59
Due from banks 8.402	17	Demand certificates of de-
Cash on hand 1,617	88	posit 2,349 40
Expenses 3,878	55	Savings deposits 21,798 76
Total\$58,509	54	Total\$58,509 54

#### BOTHELL-BOTHELL STATE BANK.

# GERT ERICKSEN, President.

#### G. E. HANSON, Cashier.

Total..... \$66,064 62

RESOURCES.			LIABILITIES.	
louns and discounts	8,109 2,600	56 92 00	Capital paid in       \$12,500         Surplus fund       2,500         Undivided profits       2,153         Deposits subject to check       31,108	00 95
Other real estate owned  Due from banks	1,800 3,851	64 61	Demand certificates of deposit	50
items (ish on hand	K	00 49	Savings deposits       16,496         Certified checks       17         Other       505	50
Total	\$74,988	95	Total \$74,988	95

#### **DUVALL**—DUVALL STATE BANK.

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#### ENUMCLAW-PEOPLES STATE BANK.

# B. R. KIBLER, President-Cashier.

Total . . . . . . . . . . . \$66,064 62

RESOURCES.			LIABILITIES.		
Overdrafts		63	Capital paid in Surplus fund	6,250	00
Ban Daring house	8 100	00	Undivided profits Postal savings deposits	1,372	09
Description and fixtures			Deposits subject to check.  Demand certificates of de-	66,005	34
Deliges for clearing	803	31	posit	811	57
Cash on hand		24	posit		
Total			Total		

### ENUMCLAW-STATE BANK OF ENUMCLAW.

S. LAFROMBOISE, President.	A. C. Johansen, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts.       \$109,202       25         Overdrafts       95       33         Bonds and warrants.       47,891       35         Furniture and fixtures.       3,678       00         Due from banks.       44,867       23         Checks and other cash items.       250       68         Cash on hand.       10,943       46         Expenses       7,697       94	Capital paid in
Total \$224,626 24	Total\$224,626 24

### ISSAQUAH-ISSAQUAH STATE BANK.

### A. J. PETERS, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts Overdrafts			Capital paid in	\$25,000 250	
Bonds and warrants	5,612	52	Undivided profits	7,993	67
Banking house Furniture and fixtures			Deposits subject to check. Demand certificates of de-	51,855	77
Other real estate owned	832		posit	435	
Due from banks	17,189	42	Cashier's checks Time certificates of de-	521	92
items	246	53	posit	8,277	48
Cash on hand Expenses			Savings deposits	43,770	93
Total	\$138,104	77	Total\$	138,104	77

### KENT-STATE BANK OF KENT.

W.	H.	OVERLOCK,	<b>Presi</b>	dent.
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# CHAS. R. OTEY, Cashier.

RESOURCES.		LIABILITIES.		
Loans and discounts       \$159,101         Overdrafts       24         Bonds and warrants       17,971         Banking house       12,500         Due from banks       59,327         Checks and other cash	32 42 00	Capital paid in	\$40,000 10,000 14,154 1,759 124,828	00 53 59
1 tems	15	posit	1,942 3,543 15,771 55,348	93 59
Total\$267,349	14	Total	\$267,349	14

#### KIRKLAND-KIRKLAND STATE BANK.

HERMAN C. SCHULTZ, President.	GLENN M. JOHNSON, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts     \$31,336     33       Overdrafts     258     25       Bonds and warrants     17,739     74       Furniture and fixtures     1,606     38       Due from banks     7,937     56       Checks and other cash items     268     25       Cash on hand     1,583     53       Expenses     3,873     66	Capital paid in       \$10,000       00         Surplus fund       1,000       00         Undivided profits       3,303       95         Due to banks       2,187       12         Deposits subject to check       38,780       80         Demand certificates of deposit       220       00         Cashler's checks       208       84         Time certificates of deposit       3,733       50         Savings deposits       5,13       02         Certified checks       56       47
Total\$64,603 70	Total \$64,603 70

### NORTH BEND-STATE BANK OF NORTH BEND.

W. H. TAYLOR, President.	Loy E. Carlin, Cashier.		
RESOURCES.		LIABILITIES.	
Loans and discounts	62 58 00 46 00 77 81	Capital paid in       \$10,000       00         Surplus fund       200       00         Undivided profits       499       21         Deposits subject to check       27,381       40         Demand certificates of deposit       199       75         Time certificates of deposit       3,528       02         Savings deposits       10,261       05	
Total\$52,069	43	Total \$52,069 43	

### REDMOND-REDMOND STATE BANK.

r. M. ROBERTS, President.	C. A. Shinstrom, Cashier.			
RESOURCES.		LIABILITIES.		
Loans and discounts       \$79,332         Overdrafts       56         Bonds and warrants       7,413         Banking house       3,217         Furniture and fixtures       60         Ime from banks       8,274         Cash on hand       2,652	92 75 01 10 14	Capital paid in	1,500 2,209 <b>54</b> ,558 590 3,099	00 39 89 75 65
Total\$101,006	96	Total	<del></del>	

#### RENTON-CITIZENS BANK OF RENTON.

H. Evans, President.		R. W. GILHAI	u, Cashi	er.	
RESOURCES.			LIABILITIES.		
Loans and discounts Overdrafts Bonds and warrants Banking house Furniture and fixtures. Other real estate owned	958 18,549 8,600 3,500	77 70 00 00	Capital paid in	\$25,000 1,000 8,040 114,557 2,171	66 26
Due from banks Checks and other cash		36	Cashier's checks Time certificates of de-	2,187	
items	9,661	87	posit		78 70 86

#### SEATTLE-AMERICAN SAVINGS BANK & TRUST COMPANY.

### J. P. GLEASON, President.

Total.....\$253,545 62

#### JOHN K. BUSH, Cashier.

Total.....\$253,545 62

RESOURCES.			LIABILITIES.		
Loans and discounts\$	1.349.186	64	Capital paid in	\$600,000	00
Overdrafts	127		Surplus fund	100,000	ŎŎ
Bonds and warrants	85.632		Undivided profits	70.396	
	00,002	00	Dividends unpaid	67	
Stocks and other securi-					
ties	30,093	26	Due to banks	153,355	64
Banking house	750,000	00	Postal savings deposits	5.000	00
Furniture and fixtures	25,220	36	State deposits	100.000	ÓÓ
Other real estate owned.	24,730		Deposits subject to check	881.086	
Due from banks	356.387		Demand certificates of	001,000	٠.
	350,381	99			
Checks and other cash			deposit	12,942	
items	6.083	91	Cashier's checks	18,713	73
Exchanges for clearing	.,		Time certificates of de-		
house	13,208	27	posit	44,841	88
Cash on hand	164.975		Savings deposits	877,786	
			Contided the she		
Expenses	46,820		Certified checks	2,675	91
Safe deposit vaults	14,400	00			
Total\$	2,866,867	20	Total\$	2,866,867	20

### SEATTLE-BANK FOR SAVINGS IN SEATTLE.

DANIEL KELLEHER, President.		O. H. P. LAFARGE, Secretary.			
RESOURCES.		LIABILITIES.			
Loans and discounts \$419,251	68	Capital paid in	\$400,000	00	
Bonds and warrants 346,404	03	Surplus fund	12.000		
Furniture and fixtures 16.000	00	Undivided profits	3,678		
Other real estate owned. 258,665	95	Postal savings deposits	30.764		
Due from banks 48,493	90	Demand certificates of	50,.51	•••	
Checks and other cash		deposit	2,435	21	
items 90	81	Time certificates of de-	-,100		
Exchanges for clearing		posit	30.928	53	
house	00	Savings deposits	614,454		
Cash on hand 4,590	72		022,101	٠.	
Total\$1,094,262	09	Total\$	1,094,262	09	

#### SEATTLE-BROADWAY STATE BANK.

### W. R. PHILLIPS. President.

### G. B. WALKER, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts	\$164,370	38	Capital paid in	\$25,000	00
Overdrafts	4,920		Surplus fund	5.000	ÓÓ
Bonds and warrants	2.600		Due to banks	7,500	
Furniture and fixtures	5,468		Deposits subject to check.	125.248	
Other real estate owned	2,939		Demand certificates of de-	,	
Due from banks	5.820		posit	60	00
Checks and other cash	-,		Cashier's checks	5.692	30
items	5.025	00	Time certificates of de-	- •	
Exchanges for clearing	-,		posit	12,438	15
house	6,507	56	Savings deposits	37,479	
Cash on hand	18,238		Certified checks		ŌŌ
Expenses	2,551				
Total	\$218,441	50	Total	\$218,441	50

### **8EATTLE—CANADIAN BANK OF COMMERCE.**

# George H. Belt, Acting Manager.

RESOURCES.		LIABILITIES.	
Loans and discounts\$1,604,909 Overdrafts 353 Bonds and warrants381,712 Stocks and other securi-	51	Capital paid in	20 45
Due from banks 969,622 Checks and other each		Deposits subject to check 877,776 Demand certificates of deposit	00
Exchanges for clearing		Time certificates of de- posit	67
Expenses	35 32	Certified checks 6,008	59 —
Total \$3,384,300	59	Total\$3,384,300	59

### SEATTLE-CITIZENS BANK OF GEORGETOWN.

# CECIL H. UPPER, President.

RESOURCES.			LIABILITIES.		
Loans and discounts	\$102,003	23	Capital paid in	\$25,000	00
			Undivided profits	3,723	91
	4.400	00	Due to banks	2,985	67
Furniture and fixtures	3,257		Deposits subject to check.	65,330	
Other real estate owned	9,784	66	Demand certificates of de-		
I'me from banks	480		posit	37	66
Checks and other cash			Time certificates of de-		
items	4.042	95	posit	7.350	00
Cash on hand	3.683	95	Savings deposits	24.631	28
Expenses nand.	11,405		Bills payable	10,000	00
Total	\$139,059	08	Total	\$139,059	08

### SEATTLE-DEXTER HORTON TRUST & SAVINGS BANK.

### C. J. SMITH, President.

### W. W. SCRUBY, Cashier.

RESOURCES.		LIABILITIES.	
Loans and discounts\$2,453,338	03	Capital paid in \$400,000	00
Bonds and warrants 2.515.217		Surplus fund 80,000	
Stocks and other securi-		Undivided profits 140,417	
ties 15,695	77	Postal savings deposits 37.005	
Furniture and fixtures 26,000		Deposits subject to check 200.257	
Other real estate owned. 492,312		Demand certificates of	
Due from banks 1.690.758		deposit 122	75
Checks and other cash	••	Cashler's checks 14.172	
items	62	Time certificates of de-	
Exchanges for clearing	~-	posit 4.500	00
house	50	Savings deposits 6,679,915	
Cash on hand 377.383		Certified checks 23	
Expenses 5,391		Trust funds 20.574	
		20,012	
Total\$7,576,989	76	Total\$7,576,989	76

### SEATTLE-FREMONT STATE BANK.

### C. E. REMSBERG, President.

### J. HARWOOD MORRIS, Cashier.

RESOURCES.		LIABILITIES.		
Loans and discounts \$152,009	28	Capital paid in	\$50,000	00
Overdrafts 840	37	Surplus fund	3.500	
Bonds and warrants 748	35	Undivided profits	4.944	47
Furniture and fixtures 1.700	00	Deposits subject to check.	64.016	84
Other real estate owned 27,799	07	Demand certificates of de-		
Due from banks 27.462	92	posit	2.309	02
Checks and other cash		Cashier's checks	196	
items 466	69	Time certificates of de-		
Cash on hand 5,966	22	posit	10.877	36
Expenses 9,682	75	Savings deposits	65.331	46
	•-	Bills payable	25,500	
Total\$226,675	65	Total	\$226,675	65

### SEATTLE-GERMAN-AMERICAN MERCANTILE BANK.

#### ERNEST CARSTENS, President.

### I. J. RILEY, Cashier.

RESOURCES.		LIABILITIES.		
Loans and discounts\$1,058,753	09	Capital paid in	\$200,000	00
Overdrafts	88	Surplus fund	6.000	
Bonds and warrants 116,127	98	Undivided profits	28,255	
Stocks and other securi-		Due to banks	74,078	
ties 10,573	00	State deposits	55.000	
Furniture and fixtures 18,983		Deposits subject to check	661,633	
Other real estate owned. 42,432	05	Demand certificates of	,	
Due from banks 142,979	36	deposit	6.292	83
Checks and other cash		Cashier's checks	45.054	04
items 4,222	78	Time certificates of de-		•
Exchanges for clearing		posit	54.267	28
house 19.162	00	Savings deposits	303,416	05
Cash on hand 24,010	31	Certified checks	3.021	
Expenses	21	Re-discounts	3.500	00
Leasehold 4,000	00	Bills payable	25,000	00
		Bonds borrowed	9,200	00
Total\$1,474,718	58	Total	1,474,718	58

#### SEATTLE-GREEN LAKE STATE BANK.

# GEO. W. LEAR, President. LOUIS K. LEAR, Cashier.

resources.			LIABILITIES.	
Loans and discounts	\$55,343	01	Capital paid in	\$25,000 00
Overdrafts	7	82	Surplus fund	5.000 00
Bonds and warrants	54.583	02	Undivided profits	6,211 59
Stocks and other securities	4.419		State deposits	30,000 00
Banking house	18,288		Deposits subject to check.	52,750 52
Purniture and fixtures	3,993		Demand certificates of de-	02,.00 02
Due from banks	24.231		posit	2,521 20
Checks and other cash	,		Cashier's checks	14,111 39
items	74	64	Time certificates of de-	11,111
Exchanges for clearing	• •	•	posit	31,771 85
house	1.463	97	Savings deposits	57 57
Cash on hand			bavings deposits	01 <b>0</b> 1
	1,866			
Expenses	1,800	99		
Total	\$167.424	12	Total	\$167.424 12

### *SEATTLE—GUARDIAN SAVINGS BANK.

JOSEPH E. THOMAS, President.		THOS. H. KOLDERU	P, Cashi	er.	
RESOURCES.			LIABILITIES.		
Loans and discounts Overdrafts Bonds and warrants	\$89,680 46 41,236	51 24	Capital paid in Undivided profits Deposits subject to check.	\$80,000 2,651 42,353	19
Due from banks	3,228 40,536	96	Demand certificates of deposit	100 13,588	
items Exchanges for clearing house	1,152		Time certificates of deposit	27,890 13,664	99
Cash on handOther	3,728 575	28	Certified checks		25
Total	<b>\$</b> 180,280	67	Total	<b>\$</b> 180,280	67

^{*} Authorised August, 1915.

### SEATTLE-JAPANESE COMMERCIAL BANK.

M. Furuya, President. M. Matsumoto,		
_ RESOURCES.	LIABILITIES.	
Loans and discounts       \$370,984       33         Overdrafts       482       82         Bonds and warrants       24,194       27         Furniture and fixtures       2,000       00         Due from banks       154,149       77         Checks and other cash items       26,082       96         Cash on hand       26,062       96         Expenses       12,250       89	Capital paid in	
	Savings deposits         276,129         89           Certified checks         9         98	
Total\$592,813 82	Total\$592,813 82	

### SEATTLE-KING COUNTY STATE BANK.

### J. F. RANNING, President.

R. W. GREEN, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts Overdrafts Bonds and warrants Furniture and fixtures. Other real estate owned. Due from banks	\$83,566 805 1,408 4,113 2,600 14,546	22 24 50 00	Capital paid in	1,500 4,846 62,419 5,371	00 47 03 75
Checks and other cash items	1,423 8,541 5,087	27	Cashier's checks Time certificates of deposit Savings deposits Certified checks	1,075 15,975 6	00
Total	\$122,091	36	Total	\$122,091	36

### SEATTLE-METROPOLITAN BANK.

### H. C. HENRY, President.

R. P. LOOMIS, Cashier.

RESOURCES.		LIABILITIES.		
Loans and discounts\$1,200,024	30	Capital paid in	\$100,000	00
Overdrafts 144	36	Surplus fund		ÕÕ
Bonds and warrants 116.192	71	Undivided profits	34.253	19
Stocks and other securi-		Due to banks	146,507	ÕĬ
ties 100	00	Postal savings deposits	17.447	64
Furniture and fixtures 10,250	94	State deposits	95,000	ÕÕ
Due from banks 857.605		Deposits subject to check		48
Checks and other cash		Demand certificates of	-,	
items 3.340	59	deposit	930	65
Exchanges for clearing		Cashier's checks	3.619	91
house	02	Time certificates of de-	-,	
Cash on hand 226,782		posit	447,709	54
0402 02 2424	-	Savings deposits	199,924	
		Certified checks		60
Total\$2,438,200	59	Total	2,438,200	59

### SEATTLE-MORTGAGE TRUST & SAVINGS BANK.

#### WM. P. HARPER, President.

PAUL C. HARPER, Secretary.

RESOURCES.			LIABILITIES.	
Loans and discounts \$	120,019	49	Capital paid in \$100,000	
Overdrafts	283	00	Surplus fund 3,700	00
Bonds and warrants	2.498	08	Undivided profits 5.084	13
Stocks and other securities	6,952	48	Deposits subject to check. 16,137	67
Furniture and fixtures	2.107	93	Demand certificates of de-	
Other real estate	28,127	20	posit 12,529	
Due from banks	16.146	88	Cashier's checks 1,264	70
Checks and other cash			Savings deposits 46,298	39
items	4.070	69	• •	
Cash on hand	2.359	39		
Expenses	2,449	61		
Total\$	185,014	75	Total\$185,014	75

### SEATTLE-NORTHERN BANK & TRUST COMPANY.

W. R. PHILLIPS, President.		W. L. COLLIE	ı, Cashi	er.	
RESOURCES.			LIABILITIES.		
Loans and discounts Overdrafts Bonds and warrants Stocks and other securities Furniture and fixtures. Other real estate owned. Due from banks. Checks and other cash items Exchanges for clearing house Cash on hand	\$863,794 6,047 167,181 158,159 26,538 32,450 99,609 19,673 31,173 87,311	91 77 13 52 47 59 09	Surplus fund Undivided profits Dividends unpaid Due to banks State deposits Deposits subject to check Demand certificates of deposit Cashier's checks Time certificates of deposit Savings deposits	4,076 20 54,444 25,000 707,773 5,031 6,406 16,610 466,297	00 00 67 00 10 83 10 62 65
			Certified checks Bills payable Other	2,765 83,000 515	00 00
Total	31,491,940	11	Total\$1	,491,940	11

#### SEATTLE-NORTH SIDE STATE BANK.

A. J. GODDARD, President.	HARRY WELTY, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts \$18,719 54	Capital paid in \$10,000 00
VICIUS SIO 47	Undivided profits 56 97
	Deposits subject to check 21,278 31
tuilline and flythred 1590 (0)	Demand certificates of de-
VIUSE FROM L setata Awrod 70 73	posit 158 00
PUT LIGHT Denke 5 805 94	Time certificates of deposit 1.550 00
Cash on hand 2,645 71	Savings deposits 5,854 36
Total\$38,897 64	Total\$38,897 64

# SEATTLE-NORTHWEST TRUST & SAFE DEPOSIT COMPANY.

E.	SHORROCK.	President	

### J. V. A. SMITH, Cashier.

RESOURCES.			LIABILITIES.		
Overdeand discounts	\$668,033		Capital paid in		
	380		Surplus fund	7.200	00
	292,671	54	Undivided profits	41.578	24
			Due to banks	12,246	
	2.676	K1	Fostal savings deposits	8.330	
Rafe don			rostai savings deposits.		
	15,000		Deposits subject to check	633,389	48
	18,546	91	Demand certificates of		
	43,112	99	deposit	460	0.4
	139.580		Cashier's checks	9,236	
Checks and other cash	100,000			0,200	00
name and other cash			Time certificates of de-		
	14,188	70	posit	18,155	
			Savings deposits	484,611	67
	9.538	20	Certified checks	1.113	
	79,230		certimed enecks	1,110	
Accrued interest					
Exponent interest	4,176				
Expenses	29,185	31			
Total	1,316,321	74	Total\$	1,316,321	74

### SEATTLE-THE ORIENTAL-AMERICAN BANK.

M. FURUYA, President.		H. Hasegam	A, Cashi	er.
RESOURCES.		LIABILITIES.		
Loans and discounts Overdrafts Banking house Furniture and fixtures Other real estate owned . Due from banks Checks and other cash items Cash on hand Expenses	\$86,539 08 372 19 48,164 08 3,770 37 70,000 00 31,856 73 384 16 10,497 13 11,067 74	Capital paid in	16,163 12,478 35,420 8,553 1,549 31,707 91,604 175	13 22 42 54 87 11
Total\$	262,651 48	• •		

### SEATTLE-PEOPLES SAVINGS BANK.

E. C. NEUFELDER, President.		Jos. T. GREENLEAF, Cashier.		
RESOURCES.			LIABILITIES.	
Loans and discounts Overdrafts	\$733,706 215 112,178 70,200 404,054 415,771 518,647 3,773 17,761 282,149	83 52 00 98 50 57 28	Capital paid in       \$100,000         Surplus fund       20,000         Undivided profits       231,644         Deposits subject to check       571,042         Demand certificates of deposit       8,820         Savings deposits       1,626,367         Certified checks       584	00 49 54 37 25
Total			Total\$2,558,459	20

### SEATTLE-RAINIER VALLEY STATE BANK.

S. T. Toby, President.		H. W. TANEY, Cashier.		
RESOURCES.		LIABILITIES.		
Loans and discounts	71 00 00 00 76 56	Capital paid in	3,500 14,954 1,385 117,912 230 1,275	00 98 64 49 00 35
		posit	1,104 39,071 794	16
Total\$205,227	92	Total	\$205,227	92

#### SEATTLE-SCANDINAVIAN AMERICAN BANK.

J. E. CHILBERG, President.	•	J. F. Lane, Cashier.
_ RESOURCES.		LIABILITIES.
Loans and discounts\$6,572.412 Overdrafts	89	Capital paid in       \$500,000 00         Surplus fund       500,000 00         Undivided profits       169,052 69         Dividends unpaid       150 00
Furniture and fixtures. 37,500 Other real estate owned. 300,291 The from banks 1,763,379	00 01	Due to banks
items 59,273 Fichanges for clearing	34	Demand certificates of deposit
Cash on hand         844,898           Expenses         105,208           Other         2,000	69	posit
Total\$12,583,223	92	Total\$12,583,223 92

### SEATTLE-SPECIE BANK OF SEATTLE.

J. T. KIKUTAKE, Presid	ent.	
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C. M. UYEDA, Cashier.

BESOURCES.			LIABILITIES.		
Loans and discounts Overdrafts Furniture and fixtures Due from banks	\$68,714 84 3,185 13,592	08 26	Capital paid in Undivided profits Deposits subject to check. Demand certificates of de-	\$25,000 5,906 30,287	61
house	6,201 8,187	86	posit	4,025 858	
Expenses	6,879	23	posit	7,477 27,892 396	23
Total	\$101,844	42	Total	\$101,844	42

### SEATTLE-THE STATE BANK OF SEATTLE.

E. L. GRONDAHL. Presi	ident.
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Hugo Carlson, Cashier.

BESOURCES.			LIABILITIES.		
Overdrage and discounts	\$881.317	61	Capital paid in	\$100,000	00
Overdrafts	949	45	Surplus fund	20,000	
Bonds and warrants	172,388	83	Undivided profits	32,360	02
Stocks and warrants	-		Dividends unpaid	90	00
ties and other securi-	1,885	00	Due to banks	92,443	43
Other and fixtures.	20,000	00	Postal savings deposits	5.000	00
Other real estate owned.	30,331	51	State deposits	25,000	00
Due from banks	246,074	17	Deposits subject to check	655,691	04
Checks and other cash	•		Demand certificates of		
Exchange to electing	32,150	16	deposit	73,175	33
Exchanges for clearing	•		Cashler's checks	4.343	57
house	10,938	96	Time certificates of de-	-,	
Cash on hand	95,126	48	posit	14.866	39
Expenses	39,473	04	Savings deposits	504,432	75
			Certified checks	3,232	63
Total	1,530,635	16	Total	1,530,635	16

# SEATTLE-UNION SAVINGS AND TRUST COMPANY.

JAMES D. HOGE, President.	N. B. Solner, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts\$2,564,601 43 Overdrafts	Capital paid in \$600,000 00 Surplus fund 150,000 00
Bonds and warrants 702,068 55 Stocks and other securi-	Undivided profits 154,235 73 Dividends unpaid 143 00
ties	Due to banks
Other real estate owned. 144,997 01 Due from banks 863,679 71	Deposits subject to check 1,812,555 80 Demand certificates of
Checks and other cash items 19,001 44	deposit
Exchanges for clearing house	Time certificates of deposit 128,309 96
Cash on hand	Savings deposits         1,872,064         37           Certified checks         5,065         08
Total \$5 236 076 83	Total \$5 236 076 83

### SEATTLE-UNIVERSITY STATE BANK.

GEO. W. LEAR, President.	HARRY B. LEAR, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts	Capital paid in.       \$50,000 00         Surplus fund       1,000 00         Undivided profits       2,751 80         Due to banks       14,956 66         Postal savings deposits       60,000 00         Deposits subject to check       313,229 64         Demand certificates of deposit       3,669 82         Cashier's checks       811 96         Time certificates of deposits       34,812 44         Savings deposits       151,192 42         Certified checks       1,423 26
Total	Total

### SEATTLE-WEST SEATTLE STATE BANK.

W. T. CAMPBELL, President.	J. B. Campbell, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts \$21,453 37	7 Capital paid in\$10,700 00
Overdrafts 161 02	
Bonds and warrants 18.687 38	
Furniture and fixtures 3,487 90	
Other real estate owned 3.575 28	
Due from banks 10,425 46	
Checks and other cash	Time certificates of deposit 726 30
items 126 10	) Savings deposits 4.529 35
Cash on hand 1,613 26	
Expenses 3,361 29	
Total\$62,891 06	Total

### TOLT-TOLT STATE BANK.

E. B. Cowles, President.	F. P. SEARLE, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts.	Capital pald in       \$10.000       00         Surplus fund       1,500       00         Undivided profits       1,957       04         Dividends unpaid       400       00         Deposits subject to check       38,286       21         Demand certificates of deposit       427       02         Cashier's checks       22       00         Time certificates of deposit       3,270       06
Expenses	Savings deposits 7,388 60
Total\$63,250 93	Total \$63,250 93

### VASHON-VASHON STATE BANK.

		T. Hansen, Cashier.
		LIABILITIES.
5,199 2,500 1,850 1,854 13,980 2,699	35 14 00 00 02 42	Capital paid in
398		Savings deposits 7,941 35  Total
	15,199 2,500 1,850 1,854 13,980 2,699 398	6 35 15,199 14 2,500 00 1,850 00 1,854 02 13,980 42 2,699 27

# KITSAP COUNTY.

#### BREMERTON-BREMERTON TRUST & SAVINGS BANK.

GEO. E. MILLER, Presiden	nt.		D. L. Bure	n, Cashi	er.
_ RESOURCES.			LIABILITIES.		
Loans and discounts	\$72,988	49	Capital paid in	\$25,000	00
	21	88	Undivided profits	2.832	
Bonds and warrants.	19,076	38	State deposits	10.000	00
Furniture and fixtures	5.971		Deposits subject to check.	53,570	
Due from banks	16,996		Demand certificates of de-	,	
tem and other cash			posit	30	00
items	1.206	69	Cashier's checks	660	
Cash on hand.	5.209		Time certificates of de-		
Expenses	2.424		posit	7,369	35
	-,	-	Savings deposits	24,433	
Total	\$123,895	73	Total	\$123,895	73

### KITSAP COUNTY-CONTINUED.

### BREMERTON—CITIZENS BANK OF BERMERTON.

Capital paid in	S. MIGLIAVACCA, President.			ERNEST C. EBERT, Cashier.			
Overdrafts         95         77         Surplus fund         6,600         00         6,600         00         00         15,455         97         97         97         15,455         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97	RESOURCES.			LIABILITIES.			
Overdrafts         95         77         Surplus fund         6,600         00         6,600         00         00         15,455         97         97         97         15,455         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97         97	Loans and discounts	\$70,590	79	Capital paid in	\$50,000	00	
Bonds and warrants				Surplus fund			
Banking house	Bonds and warrants			Undivided profits			
Furniture and fixtures. 4,068 00  Due from banks. 26,890 53 Checks and other cash items 424 28 Cash on hand. 12,383 03 Expenses 13,652 20  Total. \$261,925 72  CHARLESTON—STATE BANK OF CHARLESTON.  F. J. Carver, President.  BESOURCES.  Loans and discounts. \$18,472 74 Overdrafts 24 Bonds and warrants. 16,190 09 Furniture and fixtures 1,811 23 Due from banks. 75 99 07 Cash on hand. \$18,11 23 Due from banks. 75 99 07 Cash on hand. \$261,925 72  Desposits subject to check. 80,322 11 Deposits subject to check. 80,322 11 Deposit checks 1,320 69 Time certificates of deposits 78,337 92 Total. \$261,925 72  Total. \$261,925 72  Capital paid in \$15,000 00 Undivided profits 2,2552 37 Deposits subject to check. 23,857 59 Demand certificates of deposits 2,3552 37 Due from banks. 75 99 07 Cash on hand. 3,190 13 Savings deposits subject to check. 80,322 11 Deposit checks 598 07 Cash on hand. 58,000 07 Cash on hand. 3,190 13 Savings deposits checks 20,632 07 Cash on hand. 24,088 01 Deposit checks 20,632 11 Deposit							
Due from banks							
Checks and other cash   12,383 03   Cashier's checks   1,320 69		26,890	53		00,022		
Cash on hand	Checks and other cash	. 20,000	•		598	07	
Cash on hand		494	28	Cashiar's chacks			
Expenses	Cosh on hend			Time cartificates of de-	1,020	UU	
Savings deposits					0.504	45	
Total\$261,925 72  CHARLESTON—STATE BANK OF CHARLESTON.  F. J. Carver, President.  RESOURCES.  Loans and discounts\$18,472 74 Overdrafts24 Bonds and warrants 16,190 09 Banking house4,889 01 Furniture and fixtures 1,811 23 Due from banks	Expenses	10,002	20	Carings dancelts			
CHARLESTON—STATE BANK OF CHARLESTON.  F. J. Carver, President.  RESOURCES.  Loans and discounts \$18,472 74 Overdrafts 24 Bonds and warrants 16,190 09 Banking house 4,889 01 Furniture and fixtures 1,811 23 Due from banks 75 99 Cash on hand 3,190 13 Savings deposits 4,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,346 43,3				Savings deposits	10,001	92	
CHARLESTON—STATE BANK OF CHARLESTON.  F. J. Carver, President.  RESOURCES.  Loans and discounts \$18,472 74 Overdrafts 24 Bonds and warrants 16,190 09 Banking house 4,889 01 Furniture and fixtures 1,811 23 Due from banks 75 99 Cash on hand 3,190 13 Savings deposits 4,346 43	Total	\$261.925	72	Total 1	261.925	72	
F. J. CARVER, President.  BESOURCES.  Loans and discounts \$18,472 74 Capital paid in \$15,000 00 Overdrafts 2,552 37 Overdrafts 16,190 09 Banking house 4,889 01 Purniture and fixtures. 1,811 23 Due from banks. 75 99 Cash on hand 3,190 13 Savings deposits 4,346 436	CHARLESTO!	.AT8N	re :	BANK OF CHARLESTON			
Loans and discounts.       \$18,472       74       Capital paid in.       \$15,000       00         Overdrafts       24       Undivided profits       2,552       37         Bonds and warrants       16,190       09       Deposits subject to check       23,857       59         Banking house       4,889       01       Demand certificates of deposit       530       00         Furniture and fixtures       1,811       23       Cashier's checks       296       70         Cash on hand       3,190       13       Savings deposits       4,346       43		1—01A		BANK OF SHAKEESTON	•		
Overdrafts         24         Undivided profits         2,552 37           Bonds and warrants         16,190 09         Deposits subject to check         23,857 59           Banking house         4,889 01         Demand certificates of deposit         580 00           Furniture and fixtures         1,811 23         posit         580 00           Due from banks         75 99         Cashler's checks         296 70           Cash on hand         3,190 13         Savings deposits         4,346 43	F. J. CARVER, President,			A. E. GALBRAITH	i, Cashi	er.	
Overdrafts         24         Undivided profits         2,552 37           Bonds and warrants         16,190 09         Deposits subject to check         23,857 59           Banking house         4,889 01         Demand certificates of deposit         580 00           Furniture and fixtures         1,811 23         posit         580 00           Due from banks         75 99         Cashler's checks         296 70           Cash on hand         3,190 13         Savings deposits         4,346 43	•	•			i, Cashi	er.	
Bonds and warrants       16,190 09       Deposits subject to check.       23,857 59         Banking house       4,889 01       Demand certificates of deposits.         Furniture and fixtures       1,811 23       posit.       580 00         Due from banks       75 99       Cashler's checks.       296 70         Cash on hand       3,190 13       Savings deposits.       4,346 43	RESOURCES.		74	LIABILITIES.			
Banking house       4,889 01       Demand certificates of de-         Furniture and fixtures       1,811 23       posit       530 00         Due from banks       75 99       Cashler's checks       296 70         Cash on hand       3,190 13       Savings deposits       4,346 43	RESOURCES. Loans and discounts	. \$18,472	74 24	LIABILITIES. Capital paid in	\$15,000	00	
Furniture and fixtures     1,811 23 posit     530 00       Due from banks     75 99 Cashler's checks     296 70       Cash on hand     3,190 13 Savings deposits     4,346 43	RESOURCES. Loans and discounts Overdrafts	. \$18,472	24	LIABILITIES. Capital paid in Undivided profits	\$15,000 2,552	00 87	
Due from banks	RESOURCES.  Loans and discounts  Overdrafts  Bonds and warrants	. \$18,472 . 16,190	24 09	LIABILITIES.  Capital paid in Undivided profits Deposits subject to check	\$15,000 2,552	00 87	
Cash on hand 3,190 13 Savings deposits 4,346 43	RESOURCES.  Loans and discounts  Overdrafts  Bonds and warrants  Banking house	. \$18,472 . 16,190 . 4,889	24 09 01	LIABILITIES. Capital paid in Undivided profits Deposits subject to check Demand certificates of de-	\$15,000 2,552 23,857	00 37 59	
	RESOURCES. Loans and discounts Overdrafts Bonds and warrants Banking house Furniture and fixtures	. \$18,472 . 16,190 . 4,889 . 1,811	24 09 01 23	LIABILITIES. Capital paid in Undivided profits Deposits subject to check Demand certificates of deposit	\$15,000 2,552 23,857 530	00 37 59	
Expenses 1,953 66	RESOURCES. Loans and discounts Overdrafts Bonds and warrants Banking house Furniture and fixtures Due from banks	. \$18,472 . 16,190 . 4,889 . 1,811 . 75	24 09 01 23 99	LIABILITIES.  Capital paid in Undivided profits Deposits subject to check. Demand certificates of deposit Cashier's checks	\$15,000 2,552 23,857 580 296	00 87 59 00 70	

### PORT ORCHARD-KITSAP COUNTY BANK.

Total......\$46,583 09 Total......\$46,583 09

GEO. E. MILLER, President.			W. W. Boner, Cashier		
RESOURCES.			LIABILITIES.		
Loans and discounts	\$63,595	22	Capital paid in	\$20,000	00
Overdrafts	40	45	Surplus fund	2,000	00
Bonds and warrants	34,657	62	Undivided profits	5,559	69
Stocks and other securities	1,021	75	Postal savings deposits	5.139	04
Banking house	5,153	70	State deposits	20,000	00
Furniture and fixtures	2,350	68	Deposits subject to check.	51.906	12
Other real estate owned	9.820	33	Cashier's checks	1.182	29
Due from banks	14.635		Time certificates of de-		
Checks and other cash	,		posit	2.664	78
items	1.659	58	Savings deposits	28,385	
Cash on hand	2.639	88	Certified checks	48	
Expenses	1,311				
Total	\$136,886	15	Total	\$136,886	15

### KITSAP COUNTY-CONTINUED.

#### POULSBO-LIBERTY BAY BANK.

WM. THAANUM, President.			VALDEMAR HOLM, Cashier.		
RESOURCES.			LIABILITIES.		
Loans and discounts \$	81.217	88	Capital paid in \$10,0	000	00
Bonds and warrants	31.895	14		000	
Banking house	1.742	80		191	
Furniture and fixtures	1.350			32	
Other real estate owned	225		Deposits subject to check. 32,		
Due from banks	19.982		Demand certificates of de-		-
Checks and other cash	,			768	57
items	269	ßβ	Time certificates of de-		٠.
Cash on hand	7,453			783	59
Lidenge	522		Savings deposits 85,8		
Other	835			300	
Total\$1	44,995	16	Total\$144,6	95	16

# KITTITAS COUNTY.

#### CLE ELUM-CLE ELUM STATE BANK.

FRANK CARPENTER, President.	L. R. Nelson, Cashier.		
. RESOURCES.	LIABILITIES.		
Loans and discounts	Capital paid in		
Cash On hand 40,442 51	posit		
Total\$563,060 68	Total\$563,060 68		

### ELLENSBURG-THE BANK OF ELLENSBURG.

E. H. Snowden, President.	S. S. NESBIT, Cashier.		
_ RESOURCES.	LIABILITIES.		
Loans and discounts     \$108,300     92       Overdrafts     184     16       Bonds and warrants     53,197     36       Furniture and fixtures     2,500     00       Other real estate owned     11,847     59       Due from banks     55,746     91	Capital paid in		
items 158 55	posit		
house 107 clearing   house   659 54     Cash on hand   5,681 10     Expenses   11,048 94	posit		

Total......\$249,325 07 Total......\$249,325 07

# KITTITAS COUNTY-CONTINUED.

#### ELLENSBURG-THE FARMERS BANK.

TAG	RAMERY	President.
JAB.	RAMSEI.	Frestuent.

### J. C. STERLING, Cashier.

					·
		LIABILITIES.			RESOURCES.
00	\$50,000	Capital paid in	47	\$313.213	Loans and discounts
		Surplus fund		886	Overdrafts
		Undivided profits		65.611	Bonds and warrants
		Due to banks		2,756	Stocks and other securities
40		Postal savings deposits		40.000	Banking house
58		Deposits subject to check.		8,000	Furniture and fixtures
	,	Demand certificates of de-		192,995	Due from banks
35	2,341	posit			Checks and other cash
88	4.397	Cashier's checks	39	9.575	items
	•	Time certificates of de-	ÓÓ	32,035	Cash on hand
56	105,988	posit	36	16,139	Expenses
16	92,189	Savings deposits		•	•
18	\$681,212	Total	18	\$681,212	Total
•	92,189	posit	36	16,139	Expenses

### KITTITAS-KITTITAS STATE BANK.

a	***	Q	70
GEO.	w.	SNODGBASS.	President.

### H. W. HIGMAN, Cashier.

RESOURCES.			LIABILITIES.	
Loans and discounts Overdrafts Bonds and warrants Banking house Furniture and fixtures	2,885 2,770	52 61 75	Capital paid in       \$10,000         Surplus fund       650         Undivided profits       2,045         Due to banks       348         Deposits subject to check       21,029	00 44 46
Due from banks Exchanges for clearing house	1,766	37	Demand certificates of deposit	00
Total	\$41,952	99	Total\$41,952	99

# KLICKITAT COUNTY.

#### BICKLETON-BANK OF BICKLETON.

$\boldsymbol{\Gamma}$	ъ	FLOWER,	Dece	dans
v.	Ľ.	TLUWES,	I 7 C81	went.

### S. A. ROSSIER, Cashier.

resources.			LIABILITIES.		
Loans and discounts	\$119,568	31	Capital paid in	\$25,000	00
Overdrafts			Surplus fund		ŏŏ
Bonds and warrants			Undivided profits		
Stocks and other securi-	-,		State deposits		
ties	96	00	Deposits subject to check.		
Banking house		00	Cashier's checks		
Furniture and flatures			Time certificates of de-	•••	
Due from banks	14.349	61	posit	20,426	51
Cash on hand			Bills payable		ÕÕ
Expenses			payant in the second	0,000	
Motel .	914E E04	Δ1	Makal.	9145 504	01

# KLICKITAT COUNTY-CONTINUED.

#### *CENTERVILLE-FARMERS STATE BANK.

L. T. GILLETT, President.	J. C. KAIDERA, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts	Capital paid in
Total	Total\$79,764 22

^{*} Formerly private bank.

### *GLENWOOD-GLENWOOD STATE BANK.

r. G. Spencer, President.		R. E. Gearhart, Cashier.
. RESOURCES.		LIABILITIES.
	00 80 09 95 85	Capital paid in       \$10,000       00         Undivided profits       1,117       88         Deposits subject to check       12,552       83         Cashier's checks       112       60         Time certificates of deposit       3,167       68         Escrow       99       43
Total \$27.050	42	Total \$27,050 42
Formerly private bank.		

#### *GOLDENDALE-BROOKS & COMPANY BANK.

GOLDENDA	LE-BK	OOF	(8 & COMPANY BANK.		
N. B. Brooks, President.			A. E. Coley, Cashier.		
RESOURCES.			LIABILITIES.		
Checks and other cash  Checks and checks  Checks a	4,457 17,000 2,257 16,792	31 00 61 47 77 35	Capital paid in	2,500 6,624 96,769 2,211 27,837	00 29 68 77 47 00
Total	\$175,944	21	Total	\$175,944	21

# KLICKITAT COUNTY-CONTINUED.

#### GOLDENDALE-STATE BANK OF GOLDENDALE.

#### L. T. GILLETT, President.

C. E. CROOKS, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts	\$216,198	14	Capital paid in	\$25,000	00
Overdrafts	2,930	75	Surplus fund	8.000	00
Bonds and warrants	2.576	45	Undivided profits	44.088	87
Stocks and other securi-	_,		Due to banks	4.328	
ties	380	00	Deposits subject to check.	146,682	
Banking house	19.000		Cashier's checks	1.775	
Furniture and fixtures	1.901	20	Time certificates of de-		
Due from banks	19,702		posit	36.052	92
Checks and other cash	,		Savings deposits	7.140	19
items	948	69	Bills payable	10,000	
Cash on hand	8.101			,	
Expenses	11,328				
Total	\$283,067	82	Total	\$283,067	82

#### LYLE-STATE BANK OF LYLE.

~	13	TT	Dungaldand
Ui.	г.	HENDRICKSEN.	President.

L. H. LAWSON, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts \$39,43	1 3	l Ca	pital paid in \$12,50	0 (	00
	8 5	Su	rplus fund 10		
Bonds and warrants 1.02	5 2		divided profits 2.97	8 9	95
	9 5		stal savings deposits 37		
Banking house 5,00	ΘŌ		posits subject to check 26.36	2 !	56
Furniture and fixtures 1.93			mand certificates of de-	- '	
Due from banks 6,58	5 2	,	posit	0 1	95
Checks and other cash	_		shier's checks 13	2 1	10
	4 3		ne certificates of deposit 11,15	8 8	83
	9 4		ls payable 5.16		
Expenses 3,56			, , , , , , , , , , , , , , , , , , ,		
Total\$59,22	2 5	5	Total\$59,22	2 1	50

#### WHITE SALMON-THE GILLETT STATE BANK.

#### T. Z. GILLETT, President.

G. A. READ, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts	\$74.489	57	Capital paid in	\$25,000	00
Overdrafts		80	Surplus fund		
Bonds and warrants		67	Undivided profits	2.456	94
Stocks and other securi-	_,,,,,		Due to banks		
tles	350	00	Deposits subject to check.		
Banking house		00	Demand certificates of de-		
Furniture and fixtures			posit	3,000	00
Due from banks			Cashier's checks		
Exchanges for clearing			Time certificates of de-	-,	
house	1.325	77	posit	17.117	69
Cash on hand			Savings deposits		
Expenses					
Total	\$100.470	83	Total	\$100.470	83

### LEWIS COUNTY.

#### *CENTRALIA-CENTRALIA STATE BANK.

W, J. PATTERSON, President.	M. W. DAUBNEY, Assistant Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts       \$173.003       22         Bonds and warrants       7,634       99         Furniture and fixtures       4,085       00         Due from banks       68,178       26	Capital paid in       \$100,000 00         Undivided profits       12,499 38         State deposits       25,000 00         Deposits subject to check       124,648 70
Exchanges for clearing house	Demand certificates of deposit
Expenses 7,939 35	posit       3,669 38         Savings deposits       5,500 74         Certified checks       1,950 00
Total\$275,826 47	Total\$275,826 47

^{*} Authorized January, 1915.

#### CENTRALIA-FARMERS & MERCHANTS BANK.

B. H. RHODES, President.		C. Paul Uhlman	n, Cashi	er.
resources.		LIABILITIES.		
Loans and discounts	29 00 00 00 31 46	Capital paid in	5,000	00 49 60 00 95
Expenses 13,894	80	Savings deposits	115,574	14
Total \$484,338	21	Total	\$484,338	21

#### CENTRALIA-FIELD AND LEASE, BANKERS.

JOHN A. FIELD, President.		J. E. LEASE, Cashier.			
RESOURCES.			LIABILITIES.		
Overdeash discounts	\$55,977	82	Capital paid in	\$25,000	00
	157		Surplus fund	20,000	
Bonds and warrants	26,454	82	Undivided profits	10.879	92
	45,000	00	Deposits subject to check.	143,731	00
Furniture and fixtures	2,365	00	Demand certificates of de-	•	
Due from banks.	91,860	42	posit	9.532	52
			Time certificates of de-	•	
house	1,004		posit	6,829	
	20,948		Savings deposits	36,314	97
Expenses	8,518	90	-		
Total	\$252,287	41	Total	\$252,287	41

### LEWIS COUNTY-CONTINUED.

# CHEHALIS-COFFMAN, DOBSON & CO., BANKERS.

### N. B. COFFMAN, President.

### J. A. URQUHART, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts	\$709,128	22	Capital paid in	\$50.000	00
Overdrafts	628		Surplus fund	100.000	00
Bonds and warrants	82,270	29	Undivided profits	22,459	78
Banking house	29,445	00	Due to banks	13.924	47
Other real estate owned.	17,600	00	Postal savings deposits	7.693	26
Due from banks	162,770		State deposits	33,000	00
Checks and other cash			Deposits subject to check	355,408	80
items	1.561	25	Demand certificates of		
Cash on hand	62,753	56	deposit	12,814	09
Expenses	12,094	48	Cashier's checks	130	04
	,		Time certificates of de-		
			posit	123,787	43
			Savings deposits	358,795	25
			Certified checks	238	78
Total	1,078,251	90	Total	1,078,251	90

#### CHEHALIS-SECURITY STATE BANK.

#### J. W. ALEXANDER, President.

W. S. SHORT, Cashier.

RESOURCES.		LIABILITIES.		
Loans and discounts \$172,4	77 78	Capital paid in	\$25,000	00
	1 28	Surplus fund	20,000	
	69 47	Undivided profits	6.709	
Stocks and other securi-	100 11	Postal savings deposits	2.937	
		Lostar savings debosits		
ties 1,3	83 90	State deposits	15,000	00
Banking house 6,5	00 00	Deposits subject to check.	93.701	32
	50 00	Demand certificates of de-	,	
	00 00		3.623	07
		posit		
Due from banks 7.6	71 41	Cashier's checks	193	50
Checks and other cash		Time certificates of de-		
items 5	72 95	posit	27,832	03
Cash on hand 12,8	74 50	Savings deposits	34,726	19
Expenses 3,6	23 94	Re-discounts	11,500	00
Total \$241,2	25 21	Total	\$241,225	21

### MORTON-STATE BANK OF MORTON.

### F. M. BROADBENT, President.

# W. W. Morse, Cashier.

RESOURCES.		LIABILITIES.	
Loans and discounts \$21,739	03	Capital paid in \$11,000	00
Overdrafts 905		Surplus fund 500	
Bonds and warrants 9.375		Undivided profits 2,627	
Banking house 2,685	ÕÕ	Deposits subject to check. 32,386	
Furniture and fixtures 2.100		Demand certificates of de-	
Due from banks 8.108		posit	85
Checks and other cash		Time certificates of deposit 50	
items 1,800	81	Savings deposits 2,889	
Cash on hand		Bills payable 2,700	
Expenses 4,096		Other	
·			
Total\$52,594	67	Total\$52,594	67

# LEWIS COUNTY—CONTINUED.

#### NAPAVINE-NAPAVINE STATE BANK.

JAMES P. WETER, President.	L. A. DAILY, Cashier		
RESOURCES.	LIABILITIES.		
Loans and discounts       \$19,818       92         Boads and warrants       2,103       40         Banking house       2,827       66         Furniture and fixtures       1,633       25         Due from banks       954       56	Capital paid in		
Checks and other cash   20 50   Cash on hand   3,580 07   Expenses   1,770 69	posit		

Total......\$32,689 05 Total......\$32,689 05

#### *PEELL-PEELL STATE BANK.

E. H. LESTER, President.	C. W. BOYNTON, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts     \$16,335     92       Overdrafts     644     75       Bonds and warrants     213     68       Banking house     1,500     00       Purniture and fixtures     700     00       Due from banks     2,710     32       Cash on hand     5,051     5       Expenses     735     91	Undivided profits
Total\$27,891 63	Total \$27,891 63

^{*} Formerly private bank.

#### TOLEDO-TOLEDO STATE BANK.

# R. W. BELL, President-Cashier.

RESOURCES.	LIABILITIES.	
Oans and discounts       \$40,355         verdrafts       12         londs and warrants       14,240         lanking house       2,000         urniture and fixtures       1,753         laker real estate owned       1,000         last from banks       8,106         last on hand       3,798         Expenses       4,238	26 Capital paid in	. 1,700 00 4.036 01 40,205 99 . 2,656 45 . 18 56 t 14,474 88
Total	74 Savings deposits	2,156 28 252 00

#### LEWIS COUNTY-CONTINUED.

#### VADER-LITTLE FALLS STATE BANK.

G. O. WADE, President.	W. C. Krog, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts       \$38,317       41         Overdrafts       69       26         Bonds and warrants       10,329       52         Banking house       1,336       39         Furniture and fixtures       2,008       33	Capital paid in       \$10,000 00         Surplus fund       800 00         Undivided profits       4,057 10         Deposits subject to check       41,840 01         Demand certificates of de-
Due from banks       12,039       74         Checks and other cash items       58       75         Cash on hand       3,462       46	posit

Total.......\$70,323 68 Total......\$70,323 68

#### WINLOCK-STATE BANK OF WINLOCK.

#### A. N. CHENEY, President.

#### CLEMENT A. COOK, Cashier.

RESOURCES.		LIABILITIES.	
Loans and discounts \$60,01	9 02	Capital paid in \$15,000	00
Overdrafts 7	3 26	Surplus fund 800	
Bonds and warrants 11,92	9 61	Undivided profits 5,074	18
Stocks and other securities 1,46	7 62	Due to banks 1	86
	5 00	Deposits subject to check 43,938	63
Furniture and fixtures 2,69	2 60	Demand certificates of de-	
	6 97	posit 4,037	45
Due from banks 3,21	9 34	Time certificates of deposit 13,650	24
Checks and other cash		Savings deposits 1,174	95
	3 96	Certified checks 200	00
	2 73	Re-discounts 7,000	00
Expenses 4,83	7 20	Bills payable 9,000	00
Total\$99,87	7 31	Total\$99,877	31

# LINCOLN COUNTY.

#### ALMIRA-ALMIRA STATE BANK.

#### JENS PETERSON, President.

#### Julius C. Johnson, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts Overdrafts Bonds and warrants Banking house Furniture and fixtures. Other real estate owned. Due from banks Cash on hand	\$258,346 1,136 1,987 12,500 3,500 3,750 32,548 10,200 11,471	90 26 00 00 00 13 98	Capital paid in Surplus fund Undivided profits Due to banks Postal savings deposits leposits subject to check. Demand certificates of deposit Cashier's checks Time certificates of deposit Savings deposits	25,000 17,317 1,859 258 13,783 127,015 11,514 1,468 100,875 1,848	00 01 26 98 61 16 31 65
Total	\$335,440	87	Bills payable		

# LINCOLN COUNTY—CONTINUED.

#### ALMIRA--THE FARMERS STATE BANK.

#### FRED H. HYDE, President.

#### J. H. SEXSON, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts Overdrafts Banking house Furniture and fixtures Other real estate owned Due from banks Cash on hand Expenses	\$82,044 3,901 6,500 1,905 1,400 8,438 1,842 4,767	11 00 55 00 73 06	Capital paid in	1,500 1,852 44,897	00 41 23
	2,101	10	posit	18,475 878 28,000	30
Total	\$110.799	59	Total	\$110,799	59

#### CRESTON—CRESTON STATE BANK.

# J. M. Dungan, President.

### GEO. L. DUNCAN, Cashier.

RESOURCES.		LIABILITIES.		
Loans and discounts\$130,383 Overdrafts	88 50 80 60	Surplus fund	\$25,000 5,000 8,983 94,350	00 51 22
Due from banks       10,047         Checks and other cash items       1,813         Cash on hand       5,620         Expenses       4,995	55 90	posit Cashier's checks Indian deposits Savings deposits	9,598 214 17,849 4,448	39 25
Total\$165,444	50	Total\$	165,444	50

#### DAVENPORT-LINCOLN COUNTY STATE BANK.

# J. W. FBY, President.

#### FRED S. WELLS, Cashier.

RESOURCES.		LIABILITIES.		
Overdanta and discounts\$286,908	96	Capital paid in	\$50,000	00
Overdrafts 2,426	19	Surplus fund	6,500	
Bonds and warrants		Undivided profits	8,972	
Other and fixtures 3,545		Due to banks		
Other real estate owned. 4,354		Postal savings deposits	173	38
Due from banks 27,203	41	State deposits	10,000	00
		Deposits subject to check.	120,524	13
items 488	85	Demand certificates of de-		
Cash on hand		posit	1,769	55
Expenses 8,763	88	Cashier's checks	604	61
		Time certificates of de-		
		posit	45,497	25
		Savings deposits	59,709	91
		Certified checks	75	00
		Bills payable	50,000	00
Total\$365,835	96	Total	\$365,835	96

# LINCOLN COUNTY—CONTINUED.

#### EDWALL-BANK OF EDWALL.

TATEM	107	Chrry	President.	

# WARD JESSEPH, Cashier.

RESOURCES.		LIABILITIES.		
Loans and discounts \$130,657	35	Capital paid in	\$25,000	00
Overdrafts 292		Surplus fund	2.600	
Bonds and warrants 59		Undivided profits	5.322	
Banking house 4,200		Due to banks	464	
Furniture and fixtures 1,250		Deposits subject to check.	74.480	
Other real estate owned 14,414		Demand certificates of de-	,	
Due from banks 13,152		posit	33,719	56
Checks and other cash		Cashier's checks	4.897	
	00	Bills payable	27.500	
Cash on hand 6,365			_,,_,	
Expenses 3,532				
Total\$173,984	62	Total	\$173,984	62

### *GOVAN-STATE BANK OF GOVAN.

#### H. JENKINS, President.

RESOURCES.			LIABILITIES.	
Loans and discounts Overdrafts Stocks and other securities Furniture and fixtures Other real estate owned Due from banks Expenses	5,715 905 946 16	68 83 00 75 35	Undivided profits 1,309 Dividends unpaid	00
Total	\$11,734	44	Total	44

^{*} Liquidating.

### HARRINGTON—THE HARRINGTON STATE BANK.

J	OHN	E.	Russell,	Presid	lent.
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H. O. Jones, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts \$1	131,538	40	Capital paid in	\$30,000	00
Banking house	18,800	00	Surplus fund	2,700	00
Furniture and fixtures	3,050	00	Undivided profits	4,096	42
Due from banks	22,186	96	Due to banks	676	43
Checks and other cash	•		Deposits subject to check.	99,031	96
items	242	40	Demand certificates of de-	•	
Exchanges for clearing			posit	6,385	00
house	414	49	Cashier's checks	487	50
Cash on hand	8.830	05	Time certificates of de-		
Expenses	826	79	posit	89,971	76
•			Savings deposits	2,480	02
			Certified checks	60	00
Total	185.889	09	Total	\$185,889	09

# LINCOLN COUNTY-CONTINUED.

#### ODESSA-UNION STATE BANK.

#### G. W. FINNEY, President.

C. T. DEETS, Cashier.

resources.			LIABILITIES.		
Loans and discounts	373.122	87	Capital paid in	\$40,000	00
Overdrafts	1.711		Surplus fund	12.000	
Bonds and warrants	1.056	00	Undivided profits	17.087	30
Banking house	13,500	00	Deposits subject to check.	179,122	96
Furniture and fixtures	3,000	00	Demand certificates of de-	•	
Other real estate owned	20,000	00	posit	7,413	78
Due from banks	44,935	48	Indian deposits	12,202	46
Checks and other cash	•		Time certificates of de-	•	
items	201	56	posit	147,434	
Cash on hand	9,220	83	Savings deposits	21,487	69
	·		Bills payable	30,000	00
Total	466,748	32	Total	\$466,748	32

#### REARDAN-FARMERS STATE BANK.

#### JOHN MARRY, President.

E. E. Noble, Cashier.

RESOURCES.		LIABILITIES.	
Loans and discounts	98 00 53 00 00 26 33 33 25	Capital paid in         \$25,000           Surplus fund         3,000           Undivided profits         8,421           Deposits subject to check         70,185           Cashier's checks         324           Time certificates of deposit         88,853           Savings deposits         2,766	00 00 58 44 62
Total\$198,550	76	Total\$198,550	76

#### SPRAGUE-BANK OF SPRAGUE.

# A. L. SMALLEY, President.

RALPH R. JONES, Cashier.

RESOURCES.		LIABILITIES.
Loans and discounts. \$34 Overdrafts Bonds and warrants. Banking house 1: Furniture and fixtures Other real estate owned. Due from banks. 3 Checks and other cash items	5,668 82 Surplus fun- 284 74 Undivided p 10,000 00 Deposits sub 3,637 00 Demand cert 5,961 89 posit 17,637 50 Cashier's ch	10.000 00   10.000 00   10.000 00   10.000 00   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000   10.000
man ou nand	1,014 82	<b>\$426,265</b> 59

# LINCOLN COUNTY—CONTINUED.

#### *SPRAGUE-FARMERS STATE BANK.

H. D. MILLS, President.		August Wit	r, Cashier.
RESOURCES.		LIABILITIES.	
Loans and discounts Furniture and fixtures Due from banks Checks and other cash	2,516 51 655 51	Capital paid in Undivided profits Deposits subject to check Demand certificates of de-	233 .02
items	78 30 4,754 83	posit	14 00
Total	\$41.852.02	Total	\$41.852.02

^{*} Authorized August, 1915.

#### WILBUR-STATE BANK OF WILBUR.

J. McPherson, President.	CHAS. HUDKINS, Cashier.			
RESOURCES.		LIABILITIES.		
Loans and discounts       \$249,023         Overdrafts       434         Bonds and warrants       58,395         Banking house       10,000         Due from banks       84,279         Checks and other cash items       346         Cash on hand       23,693         Expenses       7,479	84 80 00 87 41 43	Capital paid in	\$25,000 5,000 15,546 292,746 89,121 6,238	00 85 90 58
Total\$433,653	40	Total	433,653	40

# MASON COUNTY.

#### SHELTON-STATE BANK OF SHELTON.

M. E. REED, President.		C. I. PRITCHAR	D, Cashi	er.
RESOURCES.		LIABILITIES.		
Loans and discounts \$147.568	36	Capital paid in	\$25,000	00
Bonds and warrants 104,808	25	Surplus fund	15,000	
Hanking house 5,000	00	Undivided profits		22
Furniture and flatures 695	53	Postal savings deposits	1.537	07
Other real estate owned 2,500	00	Deposits subject to check.	180.684	45
Due from banks 102,707	97	Demand certificates of de-		
Checks and other cash		posit	7,428	76
items 642	26	Time certificates of de-	-	
Cash on hand 19,834	16	posit	4,411	58
Expenses 9.544	23	Savings deposits	140,095	68
Total\$393,300	76	Total	\$393,300	76

F. J. MAY, Cashier.

# OKANOGAN COUNTY.

#### CONCONULLY—COMMERCIAL BANK.

# N. E. WHITWORTH, President.

resources.			LIABILITIES.		
Loans and discounts	\$173,287	08	Capital paid in	\$40,000	00
Bonds and warrants	4.579		Surplus fund	8.000	
Stocks and other securi-	•		Undivided profits	16,271	14
ties	8,240	62	Dividends unpaid	195	00
Banking house	2,282	50	Due to banks	5,144	44
rurniture and fixtures	4.766		Deposits subject to check.	104,031	76
Other real estate owned	6,672	26	Demand certificates of de-	•	
I)ue from banks	20,502	09	posit	1,130	50
Checks and other cash			Cashier's checks	1,997	85
items	390	55	Time certificates of de-	•	
Cash on hand	12,853		posit	47,934	03
Expenses	13,130	28	Bills payable	22,000	00
Total	\$246,704	72	Total	\$246,704	72

#### MOLSON-MOLSON STATE BANK.

C. S. BARNS, President.		G. B. AVER	y, Cashier	•
RESOURCES.		LIABILITIES.		
Bonds and warrants Furniture and fixtures Other real estate owned Due from banks Checks and other cosh	114 44 421 60 2,200 00 200 00 16,407 19	Capital paid in	\$15,000 00 4,000 00 3,199 88 54,174 44 3,158 78 31,774 38	0 8 4 8
items Cash on hand. Expenses Total.	636 73 6,207 31 2,791 59 3111,307 48	- Total	<b>\$</b> 111,307 48	-8

#### OMAK-OMAK STATE BANK.

J. I. Pogue, President.		John Scott, Cashi	er
		•	
-	RESOURCES.	LIABILITIES.	

Overdrage and discounts	\$41,303	37	Capital paid in \$15,000 0	0
Overdrafts Bonds and	150	34	Surplus fund 1.650 0	)0
Bonds and warrants	7,580	66	Undivided profits 3,519 8	37
Banking house	2.681	25	Deposits subject to check 48,433 8	
Furniture and fixtures	2.832	45	Demand certificates of de-	
Other real estate owned	451	57	posit 1,072 5	57
Due from banks	17,720	23	Time certificates of deposit 9,833 0	)4
Checks and other cash				7Ō
items and other cash	303	95		
Cash on hand	3.705	76		
Expenses hand	2,780			
Total		02	Total	)2

### OKANOGAN COUNTY-CONTINUED.

#### PATEROS-METHOW VALLEY BANK.

CHAS. T. BORG, President.			O. A. Johnson	, Cashi	eт.
RESOURCES.			LIABILITIES.		
Loans and discounts Overdrafts Furniture and fixtures. Other real estate owned. Due from banks. Checks and other cash items Cash on hand. Expenses	10 1,254 2,297 16,611 22 2,437	39 00 35 98 85 56	Capital paid in	2,763 23,916 64	65 89 36 44
Total	\$30 862	20	Total	<b>\$30 889</b>	20

#### RIVERSIDE-OKANOGAN STATE BANK.

HANS LUND, President.	ARTHUR LUND, Cashier.			
RESOURCES.		LIABILITIES.		
Loans and discounts \$101,931	89	Capital paid in \$25,000	00	
Overdrafts 3,270		Surplus fund	00	
Bonds and warrants 618	66	Undivided profits 7,640	46	
Banking house 3,000	00	Deposits subject to check. 75,892	12	
Furniture and fixtures 3,000	00	Demand certificates of de-		
Due from banks 23,148	06	posit 474	35	
Checks and other cash		Time certificates of de-		
items 3,527	38	posit 27,790	48	
Cash on hand 5,868	87	Certified checks 2	40	
Expenses 4,934	95			
Total\$149,299	81	Total \$149,299	81	

#### TWISP-COMMERCIAL BANK.

GEO. W. SPROUSE, Cashier.

WM. G. HUGHES, President.

RESOURCES.		LIABILITIES.
Bonds and warrants 3,6° Stocks and other securities Banking house 2,4° Furniture and fixtures 2,6° Other real estate owned 2,5° Due from banks 27,6° Checks and other cash items 11	64 70 32 30 78 74 12 50 51 00 24 8: 37 4: 21 1- 40 1: 55 50	Surplus fund
Total\$164,3	17 9	Total

#### PACIFIC COUNTY.

#### ILWACO-SOUTHWESTERN WASHINGTON BANK.

#### H. FREEBOROUGH, President.

#### P. L. SINCLAIR, Cashier.

resources.			LIABILITIES.		
Loans and discounts	\$64,506	46	Capital paid in	\$10,000	00
Overdrafts	404		Surplus fund	300	
Bonds and warrants	14.574	97	Undivided profits	4,754	46
Banking house	1.145		l'ostal savings deposits	2,195	
Furniture and fixtures	3.221	40	Deposits subject to check.	62,745	
Other real estate owned	1,200	00	Demand certificates of de-		
Due from banks	10,178	57	posit	6,916	39
Checks and other cash			Time certificates of de-		
items	811	75	posit	8,391	85
('ash on hand	4,760	22	Savings deposits	4.830	84
Expenses	4,345	50	Certified checks	14	22
	,		Bills payable	5,000	00
Total	\$105,148	81	Total	\$105,148	81

#### RAYMOND-WILLAPA HARBOR STATE BANK.

# H. W. MACPHAIL, President.

#### E. E. COLKETT, Cashier.

RESOURCES.		LIABILITIES.		
Loans and discounts       \$333,393         Overdrafts       21         Bonds and warrants       11,446         Furniture and fixtures       5,000         Other real estate owned       14,201         Due from banks       50,330         Checks and other cash	18 57 00 1 93 0 36 0 26 1 02	Capital paid in Surplus fund Undivided profits State deposits Deposits subject to check. Demand certificates of deposit Cashier's checks Time certificates of deposit Savings deposits Certified checks Re-discounts	30,000 24,862	00 92 00 93 00 36 01 03 15
		Bills payable	11,000	
Total\$452,259	30	Total	\$452,259	30

#### *80UTH BEND-FIRST INTERNATIONAL BANK.

*Liquidating through Roy A. Langley, Special Deputy State Bank Examiner.

RESOURCES.			LIABILITIES.		
Loans and discounts \$164	,689	51	Capital paid in	\$50,000	00
	7	72	Surplus fund	7.838	
			Undivided profits	8.732	26
			Due to banks	3,300	60
	.724	95	Miscellaneous collections	148	00
	•		Deposits	38,465	01
	.000	00	Interest collected by		
	.852		examiner	677	32
	.724		Cashier's checks	5	90
	,		Certified checks	40	00
	103	90	Re-discounts	6.000	
Cash on hand. 1	.737		Bills payable	12.687	
Expense 20	412		Examiner's certificates	,	
	,	-	issued	127,858	51
Total \$255	,753	44	Total	\$255,753	44

# PACIFIC COUNTY-CONTINUED.

### SOUTH BEND-PACIFIC STATE BANK.

Jos	G	HEIM.	President	

#### L. W. HOMAN, Cashier.

•				
RESOURCES.			LIABILITIES.	
Loans and discounts	\$481.863	86	Capital paid in \$100,000	00
Overdrafts	1,161		Surplus fund 35,000	
Bonds and warrants	42.623		Undivided profits 82,217	
Stocks and other securi-	12,020		Due to banks 1,879	
ties	210	OΩ	Postal savings deposits 8,984	
Banking house	10.000		Deposits subject to check. 234,193	
Furniture and fixtures	3.150		Demand certificates of de-	00
Other real estate owned	29,690		posit	Ω1
Due from banks	78.496		Cashier's checks 1.913	
Checks and other cash	10,200	UZ	Time certificates of de-	-
	23.992	20		KΛ
items				
Cash on hand	26,817		Savings deposits 112,226	
Expenses	24,203	80	Re-discounts 11,601	
			Bills payable 50,000	00
Total	<b>2079 200</b>	24	Total \$672,209	24
Total	\$012,2UB	34	10(81	94

# PEND OREILLE COUNTY.

#### IONE-IONE STATE BANK.

FRED TRUMBULL, President.	E. THOMPSON, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts	Capital paid in
Total\$79,434 33	Savings deposits 8.474 42  Total \$79,434 33

### METALINE FALLS-METALINE FALLS STATE & SAVINGS BANK.

#### H. E. NEELANDS, President.

### A. W. DRESSEL, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts Overdrafts Bonds and warrants Furniture and fixtures Due from banks Checks and other cash items Cash on hand Expenses	71 892 2,000 13,685 153 7,748	07 83 00 69 85 41	Capital paid in	90 ( 36 ( 30 (	00 68 90 20 68
Total	\$61,335	36	Total \$61,3	35	36

### PEND OREILLE COUNTY-CONTINUED.

#### NEWPORT-SECURITY STATE BANK.

### J. T. PHILLIPS, President.

E. W. Anderson, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts	181.116	31	Capital paid in	\$25,000	00
Overdrafts	391		Surplus fund	6,000	00
Bonds and warrants	17.281	01	Undivided profits	6,000	57
Banking house	11.982	09	Due to banks	1.035	29
Furniture and fixtures	3.400	00	Deposits subject to check.	112,142	30
Other real estate owned	2.270	00	Demand certificates of de-	•	
Due from banks	28,326	47	posit	3,286	74
Checks and other cash	•		Time certificates of de-	•	
items	397	47	posit	39,226	49
Cash on hand	13,320	46	Savings deposits	49,469	99
Expenses	3,100	11	Certified checks	19,424	29
_			_		
Total	261.585	67	Total	\$261.585	67

# PIERCE COUNTY.

#### BUCKLEY-STATE BANK OF BUCKLEY.

A. ECKERN, President.		C. O. Steberg, Cashie				
RESOURCES.		LIABILITIES.				
Loans and discounts \$125,552	78	Capital paid in	\$25,000	00		
Overdrafts 264	71	Surplus fund	5.000	00		
#PORGS and warrants 28.728	01	Undivided profits	2.845	61		
Danking house 4.610		Due to banks	94			
Fursifice and fixtures 2.000		Postal savings deposits	7.512			
Cuer real estate owned . 3.066		Deposits subject to check.	72,160			
Due from hanka 93.100		Demand certificates of de-	,_			
Checks and other cash		posit	2,160	41		
items 941	20	Time certificates of de-	_,_00			
Canu on hand 11 407		posit	33,206	05		
Expenses		Savings deposits				
1,020	-	Bills payable				
Total\$204,592	01	Total	\$204,592	01		

### EATONVILLE-EATONVILLE STATE BANK.

F.,	M.	Roberts,	President.	
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NORMAN J. BEUEN, Cashier.

RESOURCES.			Liabilities.		
Loans and discounts Overdrafts Bonds and warrants Banking house Furniture and fixtures	17,582 5,752	13 06 40	Capital paid in	2,151 900	04 00 93
Checks and other cash items Cash on hand	82 4,788		Time certificates of deposit Savings deposits Certified checks	7,515	41
Total	200 000	89	Total	<b>\$</b> 82 880	82

# PIERCE COUNTY-Continued.

#### ORTING-ORTING STATE BANK.

# W. J. THOMPSON, President. M. E. CALLENDAR, Cashier.

		Liabilities.		
Bonds and warrants         28,637           Furniture and fixtures         2,600           Due from banks         27,936           Cash on hand         3,584	93 00 72 70	Surplus fund	100 4,569	00 69 15
0,202	10	posit	7,977	83
			34,638	18
\$103,276	28	Total	\$103,276	28
	28,637 2,600 27,936 3,584 3,484	\$37,032 47 28,637 93 2,600 00 27,936 72 3,584 70 3,484 46 \$103,276 28	\$37,032 47 28,637 93 2,600 00 27,936 72 3,584 70 3,484 46 Demand certificates of deposit Time certificates of deposit	\$87,032 47 Capital paid in

#### PUYALLUP-CITIZENS STATE BANK.

#### G. W. EDGERTON, President.

#### W. A. MILLER, Cashier.

RESOURCES.		LIABILITIES.		
Loans and discounts \$272,57	7 87	Capital paid in	\$25,000	00
	4 03	Surplus fund	10,000	00
Bonds and warrants 11,68	1 00	Undivided profits	17,367	73
Banking house 9,10	00 0	Postal savings deposits	2.900	45
Furniture and fixtures 4.42	9 00	Deposits subject to check.	168,451	49
Other real estate owned 3,89	2 00	Demand certificates of de-	•	
Due from banks 51,15	00 0	posit	3,37 <b>3</b>	39
Checks and other cash		Time certificates of de-		
items 27	8 52	posit	47,244	15
Cash on hand 12,85	8 69	Savings deposits	84,670	23
Expenses 3,10	9 22	Certified checks	315	89
		Re-discounts	9,775	00
Total\$369,09	8 33	Total	\$369,098	33

#### PUYALLUP-PUYALLUP STATE BANK.

#### J. S. ALSPAUGH, President.

### J. M. Jones, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts	\$167,176	69	Capital paid in	\$25,000	00
Overdrafts			Surplus fund	4.250	
Bonds and warrants	46.268	91	Undivided profits	6,549	
Stocks and other securi-			Due to banks		
ties	4.560	00	Postal savings deposits		
Banking house		00	Deposits subject to check.	148.653	
Furniture and fixtures		00	Demand certificates of de-	,	
Other real estate owned	4.500	00	posit	3,998	52
Due from banks	56,860	41	Time certificates of de-	-,	_
Checks and other cash			posit	26,007	38
items	498	22	Savings deposits		
Cash on hand	10.277	23	Certified checks	1.200	
Expenses		40		_,	•
Total	\$298,869	00	Total	\$298.869	00

# PIERCE COUNTY-CONTINUED.

#### ROY-ROY STATE BANK.

WM. T. PERKINS, President.	H. G. Hotchkiss, Cashier.
DEGATIBANG	Y TA DIT IMIMO

KESOUKCES.			LIABILITIES.		
Loans and discounts	\$51.608	26	Capital paid in	\$10,000	00
Bonds and warrants	19.239	97	Surplus fund	3,500	00
Banking house	2.100	00	Undivided profits	4,500	99
Furniture and fixtures	2.145	15	State deposits	10,000	00
Utter real estate owned	1.000	00	Deposits subject to check	34,789	62
Ule from hanks	8 888	20	Demand certificates of de-	-	
Lucks and other cash items	24	37	posit	795	
UMAN OR hand	2.988	48	Time certificates of deposit	6,620	00
Expenses	3,286	04	Savings deposits	21,052	08
Tatal	<b>\$01.959</b>	47	Total	<b>\$01.258</b>	47

### SUMNER-STATE BANK OF SUMNER.

# R.R. WHITE, President.

J. P. BARRON, Cashier.

RESOURCES.			LIABILITIES.		
Louns and discounts\$	155,360	38	Capital paid in	\$25,000	
VRICEPATTO	1,372	00	Surplus fund	3,000	
Dulius and worrents	3.522	90	Undivided profits	729	87
DUCES Sited other seemel.	-,		Deposits subject to check.	102,613	04
11/18	650	00	Demand certificates of de-		
DULL IN BOILD	8.100	00	posit	1,679	35
· ····································	2,890	00	Cashier's checks	2,208	51
THE LEGISION hanks	9.838	77	Time certificates of de-		
The sad a state of the same			posit	14,052	05
IN LEGE	1.018	47	Savings deposits	13,586	16
Vasu OII hand	6.778	84	Re-discounts	5.000	00
Expenses	2,837		Bills payable	24,000	00
Total	191,868	98	Total	\$191,868	98

#### TACOMA-BANKERS TRUST COMPANY.

₩.	R.	PHILLIPS.	President.
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A. V. HAYDEN, Cashier.

RESOURCES.			LIABILITIES.
loans and discounts	\$352,282	24	Capital paid in\$300,000 00
		05	Surplus fund 10,000 00
Bonds and warrants	77,459	16	Undivided profits 15,347 22
			Due to banks 11,094 25
	1.800	00	State deposits 80,000 00
Banking house	325,000	00	Deposits subject to check. 321.554 62
Furniture and fixtures	12,500	00	Demand certificates of de-
Other real estate owned.	36,822		posit 11,196 18
	87.692	78	Cashier's checks 7.637 38
			Time certificates of de-
items	4.611	08	posit
		• •	Savings deposits 136,509 72
podse	17.086	38	Certified checks 8,999 39
		92	, , , , , , , , , , , , , , , , , , ,
Improvement account	7.529		
Total		36	Total\$938,749 36

### PIERCE COUNTY-CONTINUED.

#### TACOMA-FIDELITY TRUST COMPANY.

T	a	D	Dunaidana
J NO.	ъ.	BAKER.	President.

F. H. LUCE, Cashier.

RESOURCES.		LIABILITIES.	
Loans and discounts\$2,792,044	01	Capital pald in \$500,00	00 0
Overdrafts 952		Surplus fund 100,00	
Bonds and warrants 574.156		Undivided profits 418,35	
Stocks and other securi-	01		2 00
	44		
ties 71,947		Due to banks 299,90	
Banking house 600,000		Postal savings deposits 21,44	
I)ue from banks 548,649	89	State deposits 335,00	00 0
Checks and other cash		Deposits subject to check 1,122,64	8 87
items 1.318	22	Demand certificates of	• • •
Exchanges for clearing		deposit 10,07	1 00
	00		
house			1 VI
Cash on hand 288,006		Time certificates of de-	
Other 2,130	00	posit	8 95
-,		Savings deposits 2,048,00	2 98
		Certified checks 4.91	
		I.etters of credit 2,33	ט טנ
Total\$4,906,238	26	Total\$4,906,23	8 26

#### TACOMA-NORTH PACIFIC BANK.

#### E. S. PRENTICE, President.

#### P. WALLERICH, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts Bonds and warrants Banking house Furniture and fixtures Other real estate owned Due from banks ('ash on hand Expenses	\$92,465 57,680 18,000 8,000 23,193 9,434 11,413	43 00 00 00 08 56	Capital paid in Surplus fund Undivided profits Postal savings deposits. State deposits Deposits subject to check. Demand certificates of deposit Cashier's checks Time certificates of deposit Savings deposits	\$25.000 10,000 11,746 10,144 7,500 84,596 6,709 916 11,521 52,552	00 17 20 00 61 94 39
Total	\$220,687	35	Total		

### TACOMA-PUGET SOUND STATE BANK.

#### H. N. TINKER. President.

#### W. W. NEWSCHWANDER, Asst. Cashier.

RESOURCES.		LIABILITIES.
Loans and discounts \$759,721	73	Capital paid in \$100,000 00
Overdrafts 11	41	Surplus fund 15,000 00
Bonds and warrants 26,979	06	Undivided profits 39.052 03
Stocks and other securi-		Due to banks 4,135 93
ties 7.300	00	State deposits 100,000 00
Furniture and fixtures 7,000	00	Deposits subject to check. 444,013 66
Other real estate owned 10,449		Cashler's checks 4,490 89
Due from banks 100,414	61	Time certificates of de-
Checks and other cash		posit 62,370 26
items	40	Savings deposits 222,665 64
Exchanges for clearing		Certified checks 1.169 40
house 48,949		
Cash on hand 19,397		
Expenses	85	
Total\$992,897	81	Total \$992,897 81

# PIERCE COUNTY—CONTINUED.

#### TACOMA-SCANDINAVIAN AMERICAN BANK.

# W. H. PRINGLE, President.

E. C. Johnson, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts	1.087.161	33	Capital paid in	\$200,000	00
Overdrafts	631	38	Surplus fund	10,000	
Bonds and warrants	751.115		Undivided profits	12,122	
Stocks and other securi-	.01,110	-	Due to banks	25,842	
tles	17.031	00	State deposits	152,500	
Banking house	200,000		Deposits subject to check	627,014	
Furniture and fixtures	32,671		Demand certificates of	021,011	00
Other real estate owned.	74,991		deposit	15.142	50
Due from banks	237.307		Cashier's checks	7.083	
Checks and other cash	201,001	•	Time certificates of de-	1,000	٠.
items	7.580	20	posit	79.651	5.4
Exchanges for clearing	1,000		Savings deposits		
house	15,433	74	Certified checks	4,229	38
Cash on hand	84.644		Bills payable	75,000	
Other	13,802		zano pagasit ilititi	.5,000	50
Total	2,522,371	24	Total\$	2.522.371	24

#### TACOMA-TACOMA SAVINGS BANK & TRUST COMPANY.

# CHAS. H. HYDE, President.

A. A. MILLER, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts	\$880,777	14	Capital pald in	\$200,000	00
OWIGIAILS	72	73	Surplus fund	20,000	00
DOUGE ADO WATTOTA	200,007	41	Undivided profits	20,859	77
1'ue irom hanka	132,241	62	Trust funds	2.415	71
TACUADRES for clearing			State deposits	90,000	00
00046	5.741	19	Deposits subject to check	170,052	52
Cash on hand	51.371		Demand certificates of		
	,	• •	deposit	1,124	50
			Cashier's checks	4.087	72
			Time certificates of de-	•	
			posit	24,888	41
			Savings deposits	735,565	
			Certified checks	1,217	
Total\$1,270,211 69		Total	1,270,211	69	

#### WILKESON-FIRST BANK OF WILKESON.

# W. H. PRINGLE, President.

T. J. ANDERSON, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts	\$117,585	14	Capital paid in	\$15,000	00
	4	68	Surplus fund	3.000	
	9,419	01	Undivided profits	8.913	59
	4,332	15	Postal savings deposits	4.681	91
	3,600	00	Deposits subject to check.	35,637	69
	11.548	98	Demand certificates of de-		
			posit	2.079	83
	6	50	Savings deposits	99,563	
	17,203	43	Certified checks		50
Expenses	5,176				•
Total	\$168.876	84	Total	\$168.876	84

# SAN JUAN COUNTY.

#### FRIDAY HARBOR-SAN JUAN COUNTY BANK.

#### GENE C. GOULD, President.

#### VAN E. SARGENT, Cashier.

RESOURCES.		LIABILITIES.		
Loans and discounts \$179,456	26	Capital paid in	35,000	00
Overdrafts 111		Surplus fund	12.500	
Bonds and warrants 41.632		Undivided profits	6,731	
Banking house 20,300		Postal savings deposits	341	
Furniture and fixtures 1,500		Deposits subject to check.	88,390	24
Other real estate owned 5.608	98	Demand certificates of de-		
Due from banks 33.810		posit	16.602	R1
Checks and other cash	-	Time certificates of de-	-0,002	-
items 673	OK		109,432	20
		posit		
Cash on hand 10,886	- 80	Savings deposits	24,786	55
Expenses 37	10	Certified checks	233	00
Total\$294,017	92	Total	\$294,017	92

# SKAGIT COUNTY.

#### ANACORTES-BANK OF COMMERCE.

DANIEL KELLEHER, President.		FRED D. CARTWRIGHT, Uashier.				
RESOURCES.		LIABILITIES.				
Loans and discounts \$106,903	71	Capital paid in	\$25,000	00		
Bonds and warrants 24,708 8		Undivided profits	4,395			
Furniture and fixtures 3,700 (	00	Postal savings deposits	7,325	68		
Other real estate owned 39,743 (	04	Deposits subject to check.	102,447	70		
Due from banks 11,099 (	00	Demand certificates of de-	•			
Checks and other cash		posit	635	00		
items 820 6	65	Cashier's checks	985	91		
Exchanges for clearing		Time certificates of de-				
house 825 7		posit	23,569			
Cash on hand 15,505 8		Savings deposits	42,061			
Expenses 3,900 4	41	Certified checks	786	00		
Total \$207,207 3	37	Total	\$207,207	37		

#### ANACORTES-CITIZENS BANK.

#### M. B. MATTICE, President.

### W. J. MATTICE, Cashier.

RESOURCES.			LIABILITIES.	
Loans and discounts	131,702	83	Capital paid in	\$25,000 00
Overdrafts	585		Surplus fund	5,000 00
Bonds and warrants	38,472	83	Undivided profits	4.867 34
Banking house	12,000	00	Postal savings deposits	10,000 00
Furniture and flxtures	1,500	00	Deposits subject to check.	136.822 93
Other real estate owned	20,290	23	Demand certificates of de-	
Due from banks	24,260	21	posit	6,223 56
Checks and other cash	•		Time certificates of de-	
items	187	95	posit	42,572 25
Exchanges for clearing			Savings deposits	12,473 88
house	423	08	• • • • • • • • • • • • • • • • • • • •	,
Cash on hand	10.893	59		
Expenses	2,643	80		
Total	242,959	96	Total	\$242,959 96

# SKAGIT COUNTY-CONTINUED.

#### CLEAR LAKE-FIRST STATE BANK.

#### C. E. BINGHAM, President.

#### Q. R. BINGHAM, Cashier.

RESOURCES.	LIABILITIES.
Loans and discounts.       \$23,197       81         Overdrafts       3       00         Bonds and warrants       4,352       50         Banking house       2,300       00         Furniture and fixtures       1,700       00         Due from banks       9,872       73         Checks and other cash	Capital paid in
items	
Total\$52,412 23	Total\$52,412 23

#### CONCRETE-STATE BANK OF CONCRETE.

# J. C. Wixson, President.

#### FRANK D. LEBOLD, Cashier.

RESOURCES.		LIABILITIES.
Bonds and warrants	65 84 00 00 93 54 37	Capital paid in
Total\$55,143	25	Total \$55,143 25

### *CONWAY-STATE BANK OF CONWAY.

JOHN !	8.	FINSTAD.	President
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#### A. GARBORG, Cashier.

resources.		LIABILITIES.
Loans and discounts     \$24,252       Bonds and warrants     180       Banking house     3,312       Furniture and fixtures     1,380       Due from banks     6,555       Checks and other cash     25       Cash on hand     3,454       Expenses     992	95 11 26 95 00 84	Capital paid in
Total\$40,153	81	Total \$40,153 81

^{*} Authorized June 21, 1915.

# SKAGIT COUNTY-CONTINUED.

#### EDISON-FARMERS & MERCHANTS BANK.

N. B. HANNAY, President	t.		J. K. Hannay	t, Cashi	er.
RESOURCES.			LIABILITIES.		
Loans and discounts Overdrafts Bonds and warrants Banking house Furniture and fixtures. Other real estate owned. Due from banks. Cash on hand. Expenses	28 2,681 3,000 1,000 2,200 892 655	15 72 00 00 78 01 78	Capital paid in	1,500 4,365 32,395 569 8,521	00 61 30 28 65
Total	*84 9×1		Total	<b>664 251</b>	0.1

#### HAMILTON-HAMILTON STATE BANK.

J. H. SMITH, President.	C. W. Stone, Cashier.		
Bonds and warrants	0 46	LIABILITIES.   Capital paid in	
Total \$50,91	2 47	Total \$50,912 47	

#### LaCONNER-LaCONNER STATE BANK.

W. S. PACKARD, Cashier.

N. B. HANNAY, President.

RESOURCES.		LIABILITIES.		
Loans and discounts \$110,82 Overdrafts	79 29 15 10	Capital paid in Surplus fund Undivided profits	5,000 9,947	00 00
Due from banks 21,75	00 00 00 00 56 38	Postal savings deposits Deposits subject to check. Demand certificates of de-	94,600	30
Cash on hand 2,17	31 70 76 61 05 02	posit		86
Total \$155.98		Total		

#### SKAGIT COUNTY-CONTINUED.

#### LYMAN-LYMAN STATE BANK.

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#### MT. VERNON-SKAGIT COUNTY SAVINGS BANK & TRUST CO.

GEO. D. McLean, Preside	ent.		Frank C. Pickerin	i <b>a, <i>Cashi</i></b>	er.
RESOURCES.			LIABILITIES.		
Loans and discounts	\$59,582	25	Capital pald in	\$25,000	00
		30	Surplus fund	1.500	
		76	Undivided profits	7.387	32
Banking house	7.387	17	Deposits subject to check.	38,042	93
Furniture and fixtures	927	00	Demand certificates of de-		
Due from banks	15,921	41	posit	337	35
Exchanges for clearing			Time certificates of de-		
house for clearing	640	99	posit	933	72
Cash on hand	5,039		Savings deposits	29,832	33
Expenses	2,309	75	Trust funds	2,136	76
Total		41	Total	\$105,170	41

#### SEDRO WOOLLEY-C. E. BINGHAM & CO.

C. E. BINGHAM, President.	Q. P. RENO, Cashier.
RESOURCES.	LIABILITIES.
I Cans and discounts \$345.534 1  Rounds and warrants 3.944 7  The sand warrants 3.944	12 Capital paid in \$50,000 00 78 Surplus fund 2,500 00
France and warrants 3.944 4	41 Undivided profits 13,396 07
Due from banks 5,000 0 Checks and other cash	62 Deposits subject to check. 227,142 40
Checks and other cash items 635 6 Cash on hand 40,330 6	
on nand 40,330 0	posit
Total\$464,906 6	

# SKAMANIA COUNTY.

#### STEVENSON-BANK OF STEVENSON.

#### E. P. Ash. President.

#### GEO. F. CHRISTENSEN, Cashier.

<b>20</b> , 1 , 1252, 1 , 00100.007			door it cameranous,	0 00.00	•••
resources.			LIABILITIES.		
Loans and discounts	\$71.684	08	Capital paid in \$1	0.000	00
Overdrafts	1.739			5.000	
Bonds and warrants	31.571			7.240	
Stocks and other securi-	01,011	•••		8.256	
ties	14.961	27	Demand certificates of de-	0,200	UU
Banking house	4.900			7.735	OK
			Time certificates of de-	1,100	83
Furniture and fixtures	3,121			0.004	
Other real estate owned	2,000		posit 1	2,081	DA.
Due from banks	149,577	45			
Checks and other cash					
items	577	05	•		
Cash on hand	4.101	86			
Expenses	6,080	94			
	2000 014		m		
Total	\$290,314	34	Total\$29	0,314	34

# SNOHOMISH COUNTY.

#### ARLINGTON-ARLINGTON STATE BANK.

C	E.	BINGHAM.	President.
·-	ш.	DINGHAM.	I / COPUCIE.

#### C. H. TRACY, Cashier.

RESOURCES.		LIABILITIES.		
Loans and discounts \$116,712	29	Capital paid in	\$25,000	00
Overdrafts 454	26	Surplus fund	5.000	00
Bonds and warrants 4.354	09	Undivided profits	7.661	57
Banking house 9,100	00	Deposits subject to check.	78.661	26
Furniture and fixtures 3,150	00	Demand certificates of de-		
Due from banks 26,086	00	posit	1.076	02
Checks and other cash	• -	Time certificates of de-	_,	
items	63	posit	55,222	42
Cash on hand 10,941		Certified checks	383	
Expenses		certified carries	000	•
Total\$173,004	62	Total	\$173,004	62

# ARLINGTON—CITIZENS STATE BANK.

J. B. RILEY, President.			L. C. PALME	B, Cashi	er.
RESOURCES.			LIABILITIES.		
Loans and discounts Overdrafts Bonds and warrants Banking house	354 12,542	83 84	Capital paid in	\$15,000 10,000 10,195 297	00 74
Furniture and fixtures Other real estate owned Due from banks	4,000 828	00 36	State deposits	10,000 77,232	00 56
Cash on hand	11,999	14	posit	3,255 746	37
Expenses	2.871		posit	40,414 45,415 167	78

Total......\$212,725 66 Total......\$212.725 66

# SNOHOMISH COUNTY-CONTINUED.

#### EDMONDS-STATE BANK OF EDMONDS.

### L W. LEWIS, President.

#### H. V. ALLEN, Asst. Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts	\$58,802	10	Capital paid in	\$25,000	00
Overdrafts	18	93	Surplus fund		00
Bonds and warrants	4.477	42	Undivided profits	698	73
Stocks and other securi-	•		Deposits subject to check.	57,300	76
ties	590	68	Demand certificates of de-	•	
Ranking house	12,000	00	posit	466	93
Furniture and fixtures	2,000	00	Cashier's checks	2.251	60
Other real estate owned	8.528	55	Time certificates of de-	•	
I've from banks	17,255	35	posit	12,959	46
(ash on hand	4.512		Savings deposits	6,241	98
Expenses	483	18	Certified checks	298	76
Total	\$108,668	22	Total	\$108,668	22

#### EVERETT-BANK OF COMMERCE.

#### DANIEL KELLEHER, President.

#### E. C. OLSON, Cashier.

resources.		LIABILITIES.	
Loans and discounts \$586,161	05	Capital paid in\$100,000	00
Overdrafts	50	Surplus fund	00
Bonds and warrants 103,081	64	Undivided profits 4,662	40
Stocks and other securi-		Due to banks 9,996	67
ties 2,000	00	Postal savings deposits 12,613	23
Banking house 10,500	00	State deposits 25,000	00
Furniture and fixtures 11,000	00	Deposits subject to check. 376,768	08
Other real estate owned. 1.695	02	Demand certificates of de-	
Due from banks 107.947	10	posit 6,971	65
Exchanges for clearing		Cashier's checks 4.299	92
bouse 20.799	32	Time certificates of de-	
Cash on hand 46,971	88	posit 53,448	45
		Savings deposits 277,228	01
		Certified checks 1,833	10
Total \$890,241	51	Total\$890,241	51

#### EVERETT-CITIZENS BANK & TRUST COMPANY.

# B. P. CASTNER, President.

### J. L. Lyen, Cashier.

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resources.	LIABILITIES.
Loans and discounts	Capital paid in.       \$100,000       00         Surplus fund       20,000       00         Undivided profits       9,819       35         Dividends unpaid       24       00         Due to banks       8,499       45         Postal savings deposits       1,915       46         State deposits       25,000       00         Deposits subject to check       169,402       73         Demand certificates of deposit       2,090       09         Time certificates of deposit       11,685       66
	Savings deposits         61,862         24           Certified checks         963         15
Total \$411.632 13	Total \$411.632 13

# SNOHOMISH COUNTY—Continued.

#### EVERETT-EVERETT TRUST AND SAVINGS BANK.

WM. C. BUTLER, President.	F. W. Brooks, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts \$343,732 41	Capital paid in \$25,000 00
Bonds and warrants 50.817 78	Surplus fund 25,000 00
Stocks and other securi-	Undivided profits 12,876 13
ties 4.138 21	Postal savings deposits 4,453 09
Furniture and fixtures 3.500 00	Deposits subject to check. 72,032 92
Other real estate owned 6.545 58	Demand certificates of de-
Due from banks 72.576 46	posit 4.486 15
Checks and other cash	Time certificates of de-
items 2.558 69	posit 26,771 75
Cash on hand 23,748 15	Savings deposits 336,997 24
Total\$507,617 28	Total \$507,617 28

#### GRANITE FALLS-GRANITE FALLS STATE BANK.

B. E. CHAPPELL, President.	C. E. STAGE, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts       \$53,629       32         Overdrafts       48       98         Bonds and warrants       6,070       55         Banking house       4,500       00         Furniture and fixtures       2,279       40         Other real estate owned       6,608       73         Due from banks       3,250       17         Checks and other cash items       1       00         Cash on hand       3,486       34         Expenses       3,628       94	Capital paid in       \$15,000       00         Surplus fund       530       78         Undivided profits       3,985       02         Deposits subject to check       26,547       53         Demand certificates of deposit       11       00         Cashier's checks       1,867       42         Time certificates of deposit       14,051       16         Savings deposits       14,051       16         Certified checks       38       98         Bills payable       10,000       00
Total \$83,501 41	Total \$83,501 41

#### *HARTFORD-THE RUCKER BANK.

B. J. RUCKER. Pres	ident.	
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#### A. D. CAMPBELL, Cashier.

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RESOURCES.	LIABILITIES.
Loans and discounts       \$44,436       34         Bonds and warrants       381       15         Banking house       2,561       35         Furniture and fixtures       1,808       10         Due from banks       14,306       25         Cash on hand       4,362       01	Capital paid in.       \$10,000 00         Undivided profits       1,802 37         Due to banks       925 80         Deposits subject to check       36,910 56         Demand certificates of deposit       121 25         Time certificates of deposit       6,137 34
	Savings deposits       11,954       88         Certified checks       3 00         Total       \$67,855       20
Total\$67,855 20	10(81 \$61,809 20

^{*} Formerly private bank.

# SNOHOMISH COUNTY—CONTINUED.

#### MARYSVILLE-MARYSVILLE STATE BANK.

8. T. Suith, President.	E. E. Colvin, Cashier.
resources.	LIABILITIES.
Loans and discounts     \$108,281     25       Overdrafts     2 08       Bomds and warrants     38,697     43       Banking house     3,100     00       Furniture and fixtures     1,945     64       Due from banks     45,917     33       Checks and other cash items     184     74       Cash on hand     7,285     04       Expenses     2,128     94	Capital paid in.       \$25,000       00         Surplus fund       5,000       00         Undivided profits       4,542       45         Postal savings deposits       3,786       22         Deposits subject to check       81,607       07         Cashier's checks       4,524       33         Time certificates of deposit       50,398       60         Savings deposits       32,683       78
Total \$207,542 45	Total\$207,542 45
200,000	•

# SNOHOMISH-COMMERCIAL BANK OF SNOHOMISH COUNTY.

HERMAN	FRIESE,	President.
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#### ALEX. LIVINGSTON, Cashier.

RESOURCES.		LIABILITIES.		
Loans and discounts \$100,726		Capital paid in		
Overdrafts 300	07	Undivided profits	9,091	79
Bonds and warrants 16.622	03	Postal savings deposits	1.682	85
Banking house 10,000	00	Deposits subject to check.	57.949	75
Furniture and fixtures 4.000		Demand certificates of de-	51,510	
Other real estate owned 10,200	Ó0	posit	941	87
Due from banks 7.049	40	Time certificates of de-		
Exchanges for clearing	-	posit	29.846	24
house 1.035	67	Savings deposits	36.187	52
Cash on hand 8,361	33	Bills payable	4.000	00
Expenses 6,405	11	•		
Total\$164,700	02	Total	\$164,700	02

#### EAST STANWOOD-STATE BANK OF EAST STANWOOD.

#### A. GARBORG, President.

#### C. R. AMUNDSON, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts Overdrafts Bonds and warrants Banking house Furniture and fixtures Due from banks Checks and other cash items Cash on hand	193 3,673 3,606 1,774 15,633 14 4,026	65 91 87 00 84 40 03	Capital paid in	3,000 3,646 878 45,068 559 65	00 06 17 68 29 00
Expenses	1,275	43	posit Savings deposits	12,453 21,529	
Total	\$102,200	56	Total	\$102,200	56

# SNOHOMISH COUNTY-Continued.

#### STANWOOD-BANK OF STANWOOD.

#### W. C. BROKAW. President.

RESOURCES.		LIABILITIES.	
Loans and discounts \$220,	483 7	76 Capital paid in \$25,000 00	)
Overdrafts	482 3	39 Surplus fund 10,000 00	)
Bonds and warrants 7.	530 4	3 Undivided profits 5,778 74	į
Banking house 7.	500 0		
	000 0		
Other real estate owned 2.	140 0	00 posit 2,997 61	
Due from banks 58.	332 9		ř
Checks and other cash		Time certificates of de-	
items	916 8	38 posit 49,567 96	,
Exchanges for clearing		Savings deposits 84,526 12	
house	15 0		
	952 2	0	
Expenses 4,	608 4	19	
Total\$322,	962 1	.0 Total\$322,962 10	,

#### SULTAN—CITIZENS BANK OF SULTAN.

#### JOHN F. WARNER, President.

# W. M. JENKINS, Cashier.

RESOURCES.		LIABILITIES.		
Loans and discounts \$24,619	10	Capital paid in	\$10.000	00
Bonds and warrants 14,268	62	Surplus fund	600	
Banking house 1,865	00	Undivided profits	2.966	19
Furniture and fixtures 1,881		Postal savings deposits	832	27
Due from banks 11,145	49	Deposits subject to check	38.015	23
Checks and other cash		Demand certificates of de-	•	
items 181	90	posit	175	00
Cash on hand 3,314	61	Cashier's checks	1.184	69
Expenses 2.829	95	Time certificates of deposit	5,387	05
•		Savings deposits	945	
Total\$60,106	42	Total	\$60,106	42

# SPOKANE COUNTY.

#### DEER PARK-FIRST STATE BANK.

F. A. REED, President.			EVAN BERG, Cashier.
RESOURCES.			LIABILITIES.
Loans and discounts	\$65,835 91 4,029 59 4,000 1,435 4,373 7,428 17 4,075 3,679	80 17 17 00 00 29 59 30 74	Capital paid in       \$25,000       00         Surplus fund       1,150       00         Undivided profits       5,280       99         Deposits subject to check       35,104       01         Cashier's checks       1,072       69         Time certificates of deposit       11,648       70         Savings deposits       11,030       70         Bills payable       4,740       00
Total	95,025	09	Total\$95,025 09

# SPOKANE COUNTY-CONTINUED.

#### FAIRFIELD-BANK OF FAIRFIELD.

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#### HILLYARD-HILLYARD STATE BANK.

W. W. COOPER, Pres
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H. C. Howe, Cashier.

RESOURCES.		LIABILITIES.		
Loans and discounts \$172,688 Bonds and warrants 12,098	52 85	Capital paid in		
Banking house 4,000	00	Undivided profits Postal savings deposits	12,495	79
Due from banks 75,197		Deposits subject to check.	110,314	
Checks and other cash items		Demand certificates of de- posit		
Cash on hand		Cashier's checks Savings deposits		
Total\$284,606	71	Total	\$284,606	71

#### LATAH-BANK OF LATAH.

#### WM. A. McEachern, President.

A. L. FALER, Cashier.

RESOURCES.	LIABILITIES.
Loans and discounts	Capital paid in       \$15,000       00         Surplus fund       3,000       00         Undivided profits       3,347       52         Due to banks       1,989       56         Deposits subject to check       52,626       11         Cashler's checks       4,975       03         Time certificates of deposit       15,889       20         Certified checks       1       10
Expenses	Total

# SPOKANE COUNTY—CONTINUED.

#### ROCKFORD—FARMERS AND MERCHANTS BANK.

J. W. Lowe, President.		Elsie M. Low	E, Cashi	ier.
RESOURCES.		LIABILITIES.		
Loans and discounts Overdrafts	\$78,794 74 93 59	Capital paid in Surplus fund	\$17,500 1,250	
Bonds and warrants Banking house	817 78	Undivided profits Due to banks	4,521	76
Furniture and fixtures	2,567 00	Deposits subject to check.	66,885	68
Due from banks Exchanges for clearing		Cashler's checks Time certificates of de-	•	
house		posit		
Total	\$19K @K1 K4	Total	2195 QK1	K 4

### SPANGLE-STATE BANK OF SPANGLE.

JOHN PETERS, President.	O. W. Newlon, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts	Surplus fund
Total\$106,388 6	Total\$106,388 67

#### SPOKANE-BANK OF MONTREAL.

### W. Dick, Manager.

RESOURCES.		LIABILITIES.	
Loans and discounts \$56,175	93	Capital paid in \$100,000	00
Overdrafts 2,349		Undivided profits 24,151	
Furniture and fixtures 2.000	00	Due to banks 34,194	
Due from banks 1,540,430		Deposits subject to check 149,978	
Checks and other cash		Demand certificates of	
items 2,019	45	deposit 365	00
Exchanges for clearing		Cashier's checks 3.388	72
house 8,338	48	Time certificates of de-	
Cash on hand 197,460	99	posit 28,970	10
Expenses 189	03	Savings deposits 1,467,915	51
Total\$1,808,963	84	Total\$1,808,963	84

O. LARSON, Cashier.

#### SPOKANE COUNTY—CONTINUED.

#### SPOKANE-FARMERS & MECHANICS BANK.

ORRIS, DORMAN, Preside	nt.		ORTHO DORMAN, Cashi		
resources.			LIABILITIES.		
Loans and discounts	\$242,066	69	Capital paid in	\$50,000	00
Overdrafts	147		Surplus fund	3,000	00
Bonds and warrants		04	Undivided profits	5,233	59
Stocks and other securi-	-,		Deposits subject to check.	149,809	
ties	11.123	50	Demand certificates of de-	•	
Furniture and fixtures			posit	270	00
Other real estate owned			Cashier's checks	2.548	60
Due from banks	23,233	61	Time certificates of de-	•	
Checks and other cash	,		posit	27,491	05
items	352	81	Savings deposits	56,820	
Exchanges for clearing			Certified checks	83	
house	5.500	15	Re-discounts	5.635	00
Cash on hand			Bills payable	25,000	
Expenses				,	•
Total	\$325 891	09	Total	\$325,891	09

#### SPOKANE-LAND TITLE SAVINGS BANK.

Z. Stewart, President.	GUST PEARSON, Vice-President			
RESOURCES.	LIABILITIES.			
Due from banks\$17,717 18 Cash on hand	Capital paid in			
Total \$95.923.15	Total \$25 233 15			

#### SPOKANE-SCANDINAVIAN AMERICAN BANK.

O. A. JOHNSON, President.

Loans and discounts.   \$574,451 45   Capital paid in.   \$100,000 00	RESOURCES.			LIABILITIES.	
Cash on hand 29,492 00	Loans and discounts \$5 Overdrafts Bonds and warrants Stocks and other securities Furniture and fixtures Other real estate owned Due from banks	336 23,743 1,000 8,000 86,685 52,684 5,054 6,315	68 99 00 00 92 36 78 94	Capital paid in         \$100,000           Surplus fund         25,000           Undivided profits         19,347           Due to banks         71,947           Deposits subject to check         250,976           Demand certificates of deposit         91,172           Cashier's checks         14,577           Savings deposits         261,683	00 21 25 96 39 90 60

Total......\$837,715 12 Total......\$837,715 12

### SPOKANE COUNTY-CONTINUED.

#### SPOKANE-SECURITY STATE BANK.

G. W. STOCKER,	President.	EARL W.	EDGINGTON, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts			Capital paid in		
Overdrafts	118	34	Surplus fund	500	00
Bonds and warrants	16,681	17	Undivided profits	3,937	04
Furniture and fixtures	2,798	67	Deposits subject to check.	94,686	98
Due from banks	29.086	08	Cashier's checks	197	52
Checks and other cash	•		Time certificates of de-		
items	422	54	posit	5.267	75
Exchanges for clearing			Savings deposits	14,157	78
house	3.507	53			
Cash on hand	6,275	03			
Expenses	3,128				
Total	\$143,747	07	Total	\$143,747	07

#### SPOKANE-SPOKANE & EASTERN TRUST COMPANY.

#### A. KUHN, President.

#### R. L. RUTTER, Vice-President.

RESOURCES.		LIABILITIES.
Loans and discounts\$5,017,325	21	Capital paid in\$1,000,000 00
Overdrafts 36		Surplus fund 200,000 00
Bonds and warrants 815.841		Undivided profits 194,279 76
	12	
Stocks and other securi-		Dividends unpaid 450 00
ties 953,502		Due to banks 2,159,692 34
Banking house 364,849	22	Postal savings deposits 19,952 05
Due from banks 2,404,748	89	State deposits 271,271 38
Checks and other cash	••	Deposits subject to check 3,199,533 91
	10	Deposits subject to theth 0,100,000 01
	12	Demand certificates of
Exchanges for clearing		deposit 65,231 75
house 78,336	64	Cashier's checks and
Cash on hand 502,579	01	letters of credit 67.324 02
Expenses		Time certificates of de-
Other 100	UU	posit
		Savings deposits 2,509,576 19
		Certified checks 8,035 65
		Liability under bond 6,000 00
Total\$10,184,277	39	Total\$10,184,277 39

#### SPOKANE-SPOKANE STATE BANK.

#### J. A. ANDERSON, President.

# O. W. TUPPER, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts	\$191.839	22	Capital paid in	\$50,000	00
Overdrafts			Surplus fund	10,000	
Bonds and warrants			Undivided profits	5.698	
Stocks and other securi-	.,000	•	Due to banks	0,000	
tles	2.819	95	State deposits		
Banking house			Deposits subject to check.	154,576	
				194,910	72
Furniture and fixtures	2,782		Demand certificates of de-		
Other real estate owned	5,185	64	posit	728	45
Due from banks	42,322	76	Cashier's checks	300	58
Checks and other cash	-		Time certificates of de-		-
items	12	00	posit	20,245	00
Exchanges for clearing		•••	Savings deposits	43,872	20
house	3.687	<b>K1</b>	Davings deposits	40,012	20
Cash on hand	5,665				
Expenses	2,943	18			
Total	\$295.428	76	Total	\$295 428	76

# SPOKANE COUNTY—CONTINUED.

#### SPOKANE-UNION PARK BANK.

M. B. CONNELLY, Presid	lent.		Frank J. Gusi	E, Cashi	er.
RESOURCES.			LIABILITIES.		
Overdrafts	\$71,859	30 84	Capital paid in		
Bonds and warrants Stocks and other securi-	9,367		Undivided profits Deposits subject to check.	3,108	
Furniture and fixtures	3,024 3,200		Demand certificates of de-		
Other real estate owned Due from banks	5,550 33,233	00	Cashier's checks Savings deposits	157	32
Checks and other cash	339		Certified checks		00
***CUSURP for clearing					
house Cash on hand	3,446 3,323	50			
Expenses	1,716				
Total	<b>\$</b> 135,062	35	Total	<b>\$</b> 135,062	35

#### SPOKANE-UNION TRUST & SAVINGS BANK.

D,	W.	TWOHY.	President.
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#### ARTHUR S. Blum, Cashier.

RESOURCES.			LIABILITIES.		
Bonds and discounts	\$701,286		Capital paid in	\$500,000	00
Bonds and warrants	161,285	74	Surplus fund	60,000	
Stocks and other securi-			Undivided profits	92,538	59
Renkim	25,078	00	Due to banks	155	13
	200,000	00	Postal savings deposits	12,854	76
Furniture and fixtures.	34.311	50	State deposits	65,000	00
	120,459	42	Deposits subject to check	171.447	14
Due from banks.	14.766	47	Demand certificates of		
			deposit	41.930	24
house for crearing	32,143	43	Cashler's checks	46,393	93
Cass On Land	14.716	18	Savings deposits	357,439	
Accounts receivable	43,711	58			-
Total	1,347,758	81	Total\$	1,347,758	81

### SPOKANE-WASHINGTON TRUST COMPANY.

# M. B. CONNELLY, President.

#### IBA W. BEDLE, Cashier.

RESOURCES.			LIABILITIES.
Overdrafts discounts	\$531,241	82	Capital paid in\$200,000 00
Overdrafts Bonds and discounts	16	63	Surplus fund 40.000 00
Bonds and warrants	19,850	58	Undivided profits 5,208 77
Stocks and warrants	•		Due to banks 29,034 09
ties and other securi-	27,057	00	Deposits subject to check. 338,964 88
Other real estate owned	23,547	25	Cashier's checks 1,552 45
Other real estate owned	68,286	45	Time certificates of de-
Due from banks	181,414	04	posit 59,832 56
Checks and other cash	•		Savings deposits 208,299 48
items and other cash	1,026	42	Special trust funds 52,546 36
Exchanges for clearing	•		•
house Cash on hand	9,409	82	•
Cash on hand	50,140	18	
ordel.	23,448	40	
Total	\$935.438	59	Total \$935 438 59

# SPOKANE COUNTY-CONTINUED.

### WAVERLY-WAVERLY EXCHANGE BANK.

FRED KIENBAUM, President.		RALPH M. DARKNEL	L, Cashi	er.
RESOURCES.		LIABILITIES.		
Loans and discounts	81 75 00 00 79 44	Capital paid in Surplus fund Undivided profits Deposits subject to check. Cashler's checks Time certificates of deposit Savings deposits Bills payable	\$10,000 1,800 4,562 44,996 6,820 22,267 171 10,000	00 88 45 82 57 07
Total\$100,618	79	Total	\$100,618	79

# STEVENS COUNTY.

#### CHEWELAH-BANK OF CHEWELAH.

THOS. BOWERS, President.	CHARLES ADAMS, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts \$62,043 55	2 Capital paid in \$15,000 00
Overdrafts 581 33	
Bonds and warrants 8,441 7	
Banking house 7,449 06	6 Deposits subject to check 42,024 88
Furniture and fixtures 2,233 2	5 Demand certificates of de-
Due from banks 8,057 8	
Checks and other cash	Cashier's checks 679 41
items 407 89	
Cash on hand 3,848 68	8 Savings deposits 11,222 89
Expenses 4,708 66	
Total \$97,771 94	Total

#### COLVILLE-BANK OF COLVILLE.

COLVILLE—E	BAN	K OF COLVILLE.		
C. W. WINTER, President.		G. M. PEDDYCORD, Cashier.		
RESOURCES.		LIABILITIES.		
Loans and discounts   \$302,715	73 13 53 93 74 85 41 04 96	Capital paid in		
Total \$506,760	55	Total\$506,760 55		

# STEVENS COUNTY-CONTINUED.

#### COLVILLE-COLVILLE LOAN & TRUST COMPANY.

#### C. H. CARROLL, President.

GEO. W. SEAL, Secretary.

RESOURCES.			LIABILITIES.		
Loans and discounts  Overdrafts  Bonds and warrants  Furniture and fixtures	\$90,088 390 1,455 4,175	26 61	Capital paid in Surplus fund Undivided profits Deposits subject to check.	\$25,000 1,400 2,806 61,681	00 84
Other real estate owned. Due from banks Checks and other cash items Cash on hand	5,743 4,639 219 14.045	36 02	Demand certificates of deposit	727 1,191 5,538	41
Expenses	1,972		posit	17,346 22 7,015	07 75
Total	\$122,729	11	Total	\$122,729	11

#### SPRINGDALE-FARMERS & MERCHANTS BANK.

#### C. W. WINTER, President.

S. M. PETERSON, President.

CHAS. O. SNAPP, Cashier.

L. H. HUBBARD, Cashier.

resources.		LIABILITIES.	
Loans and discounts	85 87 00 00 67 15 24	Capital paid in       \$10,000         Surplus fund       2,000         Undivided profits       2,425         Deposits subject to check       29,124         Demand certificates of deposit       86         Time certificates of deposit       14,838         Savings deposits       4,865	00 57 54 03 01
Total\$63,340	03	Total\$63,340	03

### THURSTON COUNTY.

#### TENINO-THE CITIZENS BANK.

RESOURCES.		LIABILITIES.		
Bonds and warrants	7 50 27 18 70 00 00 00 01 00 61 16 5 00 45 67 23 54	Capital paid in	1,000 1,996 20,066 1,230	00 27 38 00

Total......\$36,461 00 Total......\$36,461 00

### WAHKIAKUM COUNTY.

# CATHLAMET-WAHKIAKUM COUNTY BANK.

M. GORMAN, President.			Th. Fagstad, Cash	ier.
RESOURCES.			LIABILITIES.	
Loans and discounts Overdrafts Bonds and warrants Banking house Furniture and fixtures. Due from banks. Checks and other cash items Cash on hand Expenses	2,360 64,075	18 03 00 00 18 70 82		0 00 2 46 1 87 3 73 2 50 2 22
angemoto	0,010	0.	Savings deposits 2,55 Certified checks 2,06	8 66
Total	\$135,129	02	Total \$135,12	02

# WALLA WALLA COUNTY.

### PRESCOTT-THE FIRST STATE BANK.

H. S. FENDER, President.		F. J. FLEISCHER, Cashier.			
RESOURCES.			LIABILITIES.		
I.oans and discounts	6,804 2,937 1,910 2,315 8,318 2,910 166 8,902	22 51 00 69 53 76 54	Capital paid in	\$25,000 3,000 5,502 976 72,224 16,911 10 15,000	00 36 45 32 85 80
Total	4,825 \$138,625		Total	\$138,625	78

#### *TOUCHET-TOUCHET STATE BANK.

H. H. HANSON, President.	O. L. RENN, Cashier.		
RESOURCES.	LIABILITIES.		
Loans and discounts \$28,969 39	Capital paid in \$15,000 00		
Bonds and warrants 3,767 73	Undivided profits 1.335 51		
Banking house 4,000 00	Deposits subject to check 24,311 80		
Furniture and fixtures 2.000 00	Demand certificates of de-		
Due from banks 5.646 90	posit 977 78		
Cash on hand 2.708 75	Cashier's checks 434 80		
Expenses 1,771 66	Time certificates of deposit 6,804 54		
Total\$48,864 43	Total\$48,864 43		

^{*} Formerly private bank.

# WALLA WALLA COUNTY-CONTINUED.

#### WAITSBURG-THE EXCHANGE BANK.

### M. ZUGER, SR., President.

### H. P. PETERSON, Cashier.

RESOURCES.	LIABILITIES.
Loans and discounts       \$289,633       21         Overdrafts       1,835       72         Banking house       10,000       00         Furniture and fixtures       2,500       00         Due from banks       48,198       89	Capital paid in       \$50,000 00         Surplus fund       20,000 00         Undivided profits       14,118 06         Dividends unpaid       385 00         Deposits subject to check       76,606 55
Checks and other cash items       1,215 96         Cash on hand       4,389 18         Expenses       11,824 44	Demand certificates of deposit
Total\$369,577 40	Bills payable 65,000 00  Total \$369,577 40

#### WALLA WALLA-FARMERS SAVINGS BANK.

#### W. P. WINANS, President.

#### J. CHITWOOD, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts	\$817,216	62	Capital paid in	\$200,000	00
Overdrafts	653	79	Surplus fund	40,000	
Bonds and warrants	40,210	06	Undivided profits	21,887	89
Furniture and fixtures	5,000		Dividends unpaid	1,560	
Other real estate owned.	12,393		Deposits subject to check	407,261	91
Due from banks	172,643	06	Demand certificates of		
Checks and other cash	-		deposit	12,174	34
items	6,907		Time certificates of de-		
Cash on hand	62,064		posit	412,925	
Expenses	12,834	38	Savings deposits	34,113	57
Total	1,129,923	51	Total	1,129,923	51

#### WALLA WALLA-PEOPLES STATE BANK.

### H. H. MARSHALL, President.

#### W. H. THARP, Cashier.

RESOURCES.		LIABILITIES.		
Loans and discounts\$446,505 Overdrafts 68 Bonds and warrants14,001 Furniture and fixtures200 Ine from banks91,962 Exchanges for clearing	96 20 70 19	Capital paid in	20,000 23,912	00 77 85
house	50	Time certificates of deposit	191,127	95
Total\$620,010	04	Total	\$620,010	04

# WHATCOM COUNTY.

#### BELLINGHAM-NORTHWESTERN STATE BANK.

#### I. J. ADAIR. President.

#### B. F. DRAKE, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts	\$580,860	21	Capital paid in	\$100,000	00
Overdrafts	7.109		Surplus fund	25,000	
Bonds and warrants	56.970	88	Undivided profits	21.693	
Banking house	25,000		Dividends unpaid	10	
Furniture and fixtures	2,499	99	Due to banks	2.649	44
Due from banks	427.988		Postai savings deposits	13.387	
Checks and other cash	,		Deposits subject to check	683,293	
items	146	61	Demand certificates of	000,200	
Exchanges for clearing			deposit	3,896	57
house	6.847	18	Time certificates of de-	0,000	
Cash on hand	44.249		posit	64,100	00
Expenses	6.853		Savings deposits	240.655	
1,2 ,000,000	0,000	-	Certified checks	3,839	
Total	1,158,525	88	Total	1,158,525	88

#### BLAINE-HOME STATE BANK.

#### G. A. WILLISON, President.

#### O. K. MIDDLETON, Cashier.

RESOURCES.			LIABILITI <b>E</b> S.		
Loans and discounts \$125,8	897	66	Capital paid in	\$25,000	00
Overdrafts	905	09	Surplus fund	5,000	
	771	60	Undivided profits	5,994	26
Banking house 15,3	500	00	Postal savings deposits	3,458	12
Furniture and fixtures 2.0	000	00	Deposits subject to check.	75,531	63
Other real estate owned	105	97	Demand certificates of de-		
Due from banks 20,4	403	17	posit	270	41
Checks and other cash			Time certificates of de-		
items	403	53	posit	30,107	93
Cash on hand 6,0	035	75	Savings deposits		
Expenses	306	03	Certified checks	25	00
•			Re-discounts	8,600	00
Total \$181,3	328	80	Total	\$181,328	80

#### BLAINE-STATE BANK OF BLAINE.

JOHN NICOLL.	President.
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#### Louis H. Moore, Cashier.

•				•	
RESOURCES.			LIABILITIES.		
Loans and discounts	\$67,999	55	Capital paid in	\$25,000	00
Overdrafts	1.302		Surplus fund	5.000	
Bonds and warrants	13.760		Undivided profits	7.310	
Banking house			Postal savings deposits	1.082	
Furniture and fixtures	1,750		Deposits subject to check.	68,772	
Other real estate owned	6,200		Time certificates of de-	00,112	•
Due from banks	24.143		posit	9.910	41
Checks and other cash	27,210	20	Savings deposits	7,075	
items	614	OΛ	Re-discounts	10.000	
Cash on hand	4.851		re-discounts	10,000	vv
	5.779				
Expenses	0,110	0.2			
Total	\$134,152	15	Total	\$134,152	15

# WHATCOM COUNTY-Continued.

#### CUSTER-CUSTER STATE BANK.

A. W. STONE, President.	A. F. Stone, Cashier.		
RESOURCES.	LIABILITIES.		
Loans and discounts.   \$25,986 98	Surplus fund       50 00         Undivided profits       1,731 19         Deposits subject to check       22,168 58         Cashier's checks       253 50         Time certificates of deposit       5,209 38		

Total.....\$40,177 94 Total......\$40,177 94

# EVERSON-NOOKSACK VALLEY STATE BANK.

B. BOLLERUD, President.	HENRY P. JOHNSON, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts	Capital paid in       \$15,000       00         Surplus fund       450       00         Undivided profits       6,330       18         Deposits subject to check       46,518       58         Demand certificates of deposit       705       30         Time certificates of deposit       16,633       83
Cash on hand	Madel Apr and Co
Total\$85,637 89	Total\$85,637 89

#### FERNDALE-FERNDALE STATE BANK.

H. E. CAMPBELL, President.		PERCY HOOD, Cashier.		
RESOURCES.		LIABILITIES.		
I cans and discounts Overdrafts Honds and warrants Banking house Furniture and fixtures Due from banks Cash on hand Expenses	\$65,443 00 152 89 10,429 69 7,200 00 2,240 00 42,353 62 5,934 85 5,197 31	Capital paid in	5,000 8,029 1,582 82,652 127 26,528	00 51 42 42 23 23
Total	\$138,951 36	Total		

# WHATCOM COUNTY-CONTINUED.

#### LYNDEN-LYNDEN STATE BANK.

P. M. SERRURRIER, President.	W. B. VANDER GRIEND, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts	Surplus fund
	Bills payable 12,000 00
Total \$274,694 94	Total\$274,694 94

#### SUMAS-GARRISON BROS. STATE BANK.

L. A. GARRISON, President.		F. S. GARRISON, Cashier.			
RESOURCES.			LIABILITIES.		
Loans and discounts Overdrafts Bonds and warrants Stocks and other securities Banking house Furniture and fixtures Due from banks Checks and other cash items	\$97,582 8 21,787 3,000 10,000 2,100 47,733	68 73 00 00 00 54	Capital paid in Surplus fund Undivided profits Deposits subject to check. Demand certificates of deposit Time certificates of deposit Savings deposits Certified checks	\$40,000 6,000 7,012 97,863 4,863 15,529 21,372 162	00 39 14 67 53 64
Cash on hand Expenses	6,693 3,870				
Total	192,803	61	Total	\$192,803	61

# WHITMAN COUNTY.

#### ALBION-ALBION STATE BANK.

W. E. LAWSON, President.		A. R. McClaskey, Cashier.			
RESOURCES.			LIABILITIES.		
Loans and discounts \$110.	,225	44	Capital paid in	\$25,000	00
Overdrafts 2	.778	97	Surplus fund	2,300	00
	137	10	Undivided profits	2,913	
Stocks and other securi-			Due to hanks	1.499	
ties 1	,520	00	Deposits subject to check.	45,805	
	.650		Demand certificates of de-	,	
	.850	00	posit	1.495	20
Other real estate owned 2	.127	50	Time certificates of de-	,	
Due from banks 6	.227	24	posit	16,941	43
Checks and other cash	,		Savings deposits	1.679	
items 2	.551	04	Re-discounts	5.368	
	031		Bills payable	33.000	
	.904	44		,	
Total \$136	,002	74	Total	\$136,002	74

R. F. BIGELOW, Cashier.

#### WHITMAN COUNTY-CONTINUED.

# COLFAX—COLFAX STATE BANK.

J. K. McCornack, President.

				.,	
resources.			LIABILITIES.		
Loans and discounts \$	156,926	68	Capital paid in	\$60,000	00
Overdrafts	60		Surplus fund	2.000	ÕÕ
Bonds and warrants	3.959	51	Undivided profits	7,422	
Stocks and other securi-	•		Deposits subject to check.	63.840	
ties	818	08	Demand certificates of de-	,	
Furniture and fixtures	3,500	00	posit	2,755	67
Other real estate owned	4,010	79	Cashier's checks	1,278	59
I'ue from banks	14,467	92	Time certificates of de-	•	
Checks and other cash			posit	46,302	16
items	289	16	Savings deposits	9,735	56
Cash on hand	8,490		-	•	
Lanamana	011	40			

# COLFAX—FIRST SAVINGS & TRUST BANK OF WHITMAN COUNTY.

Total......\$193,335 01 Total......\$193,335 01

ALFRED COOLIDGE, President.		H. G. DE PLEDGE, Cashier.			
RESOURCES.		LIABILITIES.			
Stocks and other securities	11 5 00 4 51 00 00 0 00 3 12	Capital paid in Surplus fund Undivided profits Deposits subject to check. Cashier's checks Time certificates of deposit Savings deposits	\$50,000 12,500 13,681 101,791 6,992 5,630 124,051	00 21 94 23 32	
Total\$314,64	7 28	Total	\$314,647	28	

#### COLTON-COLTON STATE BANK.

COLICIA GOLICIA GIAIL DANK						
M. SCHULTHEIS, JB., President.		A. B. Snider, Cashier.				
RESOURCES.		LIABILITIES.				
Banking house         5,000           Furniture and fixtures         2,804           Other real estate owned         6,351           Due from banks         12,546           Checks and other cash items         10	46 61 40 00 50 90 58	Capital paid in Surplus fund Undivided profits Deposits subject to check. Cashier's checks Time certificates of deposit Re-discounts Bills payable	\$15,000 3,000 5,909 84,828 810 42,830 4,000 15,000	00 56 33 26 08		
Cash on hand       2,772         Expenses       7,054         Total       \$171,378	68		<b>\$</b> 171,378	23		

#### ELBERTON-ELBERTON STATE BANK.

R. B. WALKER, Cashier.		
TIES.		
\$10,000 00 \$00 00 \$2,922 30 check. 25,852 46 of de- \$2,639 80 \$378 33 deposit 12,139 09 \$162 80	3	
à	378 33 eposit 12,139 09	

#### ENDICOTT-THE BANK OF ENDICOTT.

M. A. SHERMAN, JR., Cashier.

Total ..... \$54,894 78

M. A. SHERMAN, President.

•			•	•	-
RESOURCES.			LIABILITIES.		
Loans and discounts	\$141.267	35	Capital paid in	\$25,000	00
Overdrafts		79	Surplus fund	7.500	
Bonds and warrants	789	98	Undivided profits	7,126	93
Furniture and fixtures	1.577	13	State deposits	5.000	00
Due from banks	8.368	08	Deposits subject to check.	72.095	76
Cash on hand		ÓÓ	Demand certificates of de-		
Expenses			posit	1.649	53
•			Time certificates of de-	•	
			posit	21.227	52
			Certified checks	70	98
			Re-discounts	10.000	00
			Bills payable	15.000	00

#### FARMINGTON-THE BANK OF FARMINGTON.

Total......\$164,670 72 Total......\$164,670 72

Alfred Coolidge, President.		W. CLAUDE RENFREW, Cashier.			
RESOURCES.		LIABILITIES.			
Loans and discounts \$121,526	11	Capital paid in \$25,000 0	ю		
Overdrafts 970		Surplus fund 5,000 0	00		
Banking house 2,000	00	Undivided profits 10,922 2	23		
Furniture and fixtures 1.000	00	Due to banks 210 6	35		
Other real estate owned 556	20	Deposits subject to check, 106,870 0	7		
Due from banks 43.413	69	Demand certificates of de-			
Cash on hand 3,363	00	posit 10,668 1	0		
Expenses 5,275	64	Cashier's checks 399 5	Ю.		
• • • • • • • • • • • • • • • • • • • •		Time certificates of de-			
		posit 19,034 8	31		
Total \$178,105	36	Total\$178,105 8	86		

#### GARFIELD-FIRST STATE BANK.

#### R. A. JOHNSON, President.

#### I. M. McCarthy, Cashier.

RESOURCES.		LIABILITIES.		
Loans and discounts	65 00 00 14 36	Capital paid in	10,000 6,306 94,241 3,885 59,705	00 75 08 36 85
items         6,022           Cash on hand         8,011           Expenses         4,586           Total         \$244,139	10 27	Bills payable	20,000 \$244.139	

#### JOHNSON-FARMERS STATE BANK.

#### A. O. WHITE, President.

#### FRANK WILLOUGHBY, Cashier.

resources.		LIABILITIES.	-
Loans and discounts\$43,248	91	Capital paid in \$10,000	00
Overdrafts 503	31	Surplus fund 1,200	00
Banking house 2,500	00	Undivided profits 1.936	10
Furniture and fixtures 1,198	15	Deposits subject to check 23.712	96
Due from banks 9,431	63	Time certificates of deposit 12,304	68
Checks and other cash		Bills payable 11.500	00
ite <b>ms</b>	05	• •	
Cash on hand 526	16		
<b>Expenses</b> 3,190	53		
Total\$60.653	7.4	Total\$60.653	74
I OLBI	14	10181	14

#### LaCROSSE-FIRST STATE BANK.

#### P. B. STRAVENS, President.

#### IRA M. CAMP, Cashier.

RESOURCES.	LIABILITIES.
Loans and discounts	Capital paid in         \$60,000         00           Surplus fund         6,700         00           Undivided profits         10,817         19           Dividends unpaid         20         00           Due to banks         2,901         98           Deposits subject to check         90,308         01           Demand certificates of deposit         1,164         66           Cashier's checks         4,701         94           Time certificates of deposit         21,012         48           Savings deposits         24,161         18           Re-discounts         27,878         00           Bills payable         53,500         00
Total\$303,165 44	Total\$303,165 44

#### LaCROSSE-SECURITY STATE BANK.

F. L. Gordon, President.		J. E. Moore, Cashier.		
RESOURCES.		LIABILITIES.		
Loans and discounts \$71,040	09	Capital paid in	\$15,000	00
Overdrafts 862	59	Surplus fund	1,575	00
Furniture and fixtures 2,000	00	Undivided profits	6.313	48
Due from banks 12,906		Deposits subject to check	32,891	69
Checks and other cash		Demand certificates of de-		
items	60	posit	293	22
Cash on hand 2,283	52	Cashier's checks	1.891	05
Expenses 5,958		Time certificates of deposit	17.802	68
	• -	Savings deposits		
		Bills payable		

#### LAMONT-LAMONT STATE BANK.

Total......\$95,073 79

Total......\$95,073 79

E. A. Shields, President.		B. J. Ellis, Cashier.			
	LIABILITIES.				
61	Capital paid in	\$10,000	00		
40	Surplus fund	2.000			
89	Undivided profits	1.773	ŎŎ		
	Deposits subject to check.	75.481	32		
60		,			
		26	98		
		-,			
		16.740	48		
11					
28	·	00,010	••		
	89 60 00 06 31	Capital paid in	Capital paid in \$10,000		

#### MALDEN-FARMERS-MERCHANTS STATE BANK.

Total......\$145,759 26 Total......\$145,759 26

L. F. ROHLEDER, President.	EDWIN T. TAYLOR, Cashier.		
RESOURCES.	LIABILITIES.		
Loans and discounts	Capital paid in		
Expenses 9,208 67  Total \$174,907 77	Total\$174.907 77		

#### OAKESDALE-COMMERCIAL STATE BANK.

#### E. H. HANFORD, President.

#### H. W. HANFORD, Cashier.

RESOURCES.	LIABILITIES.
Loans and discounts\$272,178 54	Capital paid in
Banking house       3,300 00         Furniture and fixtures       2,750 00         I'ue from banks       44,204 50         Cash on hand       5,726 60         Expenses       6,968 29	Demand certificates of deposit
Total\$337,261 46	Total\$337,261 46

#### PALOUSE-SECURITY STATE BANK.

#### J. K. McCornack, President.

#### JOHN P. DUKE, Cashier.

resources.		LIABILITIES.		
Loans and discounts\$318,66	04 34	Capital paid in	\$60,000	00
	58 45	Surplus fund	12,000	
	00 00	Undivided profits	11.299	
Stocks and other securi-		Due to banks	973	49
ties 2.09	92 26	Deposits subject to check.	146,194	76
Banking house 15.0	00 00	Demand certificates of de-		
	96 17	posit	17.781	84
Other real estate owned 6.93	83 94	Time certificates of de-		
Due from banks 19.0	67 78	posit	135,349	28
Checks and other cash		•	,	
items 1	36 04			
Cash on hand 15,0	79 72			
	79 80			
Total\$383,5	98 50	Total	\$383,598	50

#### *PINE CITY-PINE CITY STATE BANK.

#### A. J. STONE, President.

#### W. O. PALMER, Cashier.

RESOURCES.		LIABILITIES.	
Loans and discounts Overdrafts Stocks and other securities Banking house Furniture and fixtures. Other real estate owned. Due from banks Checks and other cash items Cash on hand Expenses	3,648 49 650 00 4,918 67 2,000 00 4,410 00 6,143 98 1,625 17 1,311 61	Capital paid in	\$15,000 00 2,400 96 59,334 12 13,496 99 599 91 6,828 48 5,000 00
Total	\$102,660 46	Total	\$102,660 46

[·] Formerly private bank.

#### PULLMAN-PULLMAN STATE BANK.

#### R. C. McCroskey, President.

#### E. MAGUIRE, Cashier.

resources.			LIABILITIES.		
Loans and discounts	\$368,626	17	Capital paid in	\$37,500	00
Overdrafts			Surplus fund	10,000	
Bonds and warrants			Undivided profits	25.451	
Banking house			Dividends unpaid	120	
Danking house					
Furniture and fixtures			Postal savings deposits	1,084	
Other real estate owned	16.550	55	Deposits subject to check.	237.791	09
Due from banks	33,884	37	Demand certificates of de-	,	
Checks and other cash	,		posit	5,029	11
items	813	87	Time certificates of de-		
Exchanges for clearing		- •	posit		
house	5,192	33	Certified checks	55	20
Cash on hand	20,425		Bills payable	46,088	
Expenses	18,420	40			
Total	\$496,496	05	Total	\$496,496	05

#### ROSALIA-BANK OF ROSALIA.

# EDWIN T. COMAN, President.

#### CLARK E. RATHKE, Cashier.

RESOURCES.			LIABILITIES.	
Loans and discounts\$1 Overdrafts Bonds and warrants Stocks and other securities Banking house Furniture and fixtures. Other real estate. Due from banks Checks and other cash items Cash on hand Expenses	84,959 459 1,056 501 6,500 2,000 1 13,642 1,648 8,179 8,325	46 11 00 00 00 00 43 63 83	Capital paid in       \$25,000         Surplus fund       5,000         Undivided profits       12,008         State deposits       20,000         Deposits subject to check       20,000         Demand certificates of deposit       30,225         Cashier's checks       2,321         Savings deposits       17,088         Bills payable       30,000	70 70 00 16 17 50 30
Total\$2			Total\$227,273	83

#### ST. JOHN-FARMERS STATE BANK.

#### W. S. IMBLER, President.

#### HERBERT F. IMBLER, Cashier.

RESOURCES.			LIABILITIES.	
Loans and discounts	<b>\$66.020</b>	72	Capital paid in\$20,000	00
Overdrafts			Surplus fund	
Banking house	3,507	45	Undivided profits 4,038	05
Furniture and fixtures	1,957	20	Deposits subject to check 39,195	97
Due from banks	7,298	21	Demand certificates of de-	
Checks and other cash			posit	
items	2,760		Time certificates of deposit 9.000	
Cash on hand	2,576	42	Savings deposits 2,000	86
Expenses	4,598	42	Bills payable 12,500	00
•				
Total	<b>\$</b> 89,597	67	Total\$89,597	67

#### ST. JOHN-ST. JOHN STATE BANK.

#### H. C. FISHER, President.

#### HARRY TERHUNE, Cashier.

resources.		LIABILITIES.		
Loans and discounts \$206,549	42	Capital paid in	\$25,000	00
Overdrafts 3,417		Surplus fund		00
Bonds and warrants 846	72	Undivided profits		97
Banking house 2,250	00	Indian deposits	9,148	81
Furniture and fixtures 2,250	00	Deposits subject to check.	128.612	52
Due from banks 33,764	92	Demand certificates of de-		
Checks and other cash		posit	14,712	26
items	03	Time certificates of de-	·	
Cash on hand 10,066	70	posit	24,503	
Expenses	10	Savings deposits		
- ,		Bills payable	45,000	00
Total \$260,995	89	Total	\$260,995	89

#### STEPTOE-STEPTOE STATE BANK.

#### LEWIS STAIRET, President.

# M. C. HANDLEY, Cashier.

resources.		Liabilities.
Bonds and warrants 70 Banking house 834 Furniture and fixtures 1,713	81 00 80 25	Capital paid in       \$20,000 00         Surplus fund       704 25         Undivided profits       763 71         Deposits subject to check       24,476 54         Time certificates of deposit       6,974 34         Fills parable       7000 00
Due from banks	49 50	Bills payable 10,000 00
Total\$62,918	84	Total\$62,918 84

#### TEKOA-CITIZENS STATE BANK.

#### A. B. WILLARD, President.

#### R. S. KALBFLEISCH, Cashier.

RESOURCES.		LIABILITIES.
Loans and discounts \$195,020		Capital paid in \$25,000 00
Overdrafts 919	23	Surplus fund 3,000 00
Bonds and warrants 1,574	97	Undivided profits 8,342 39
Furniture and fixtures 2,722		Postal savings deposits 388 14
Other real estate owned 1,993		Deposits subject to check. 118,825 95
Due from banks 23,850	53 ·	
Checks and other cash		posit 3,548 36
items 337	97	Time certificates of de-
Exchanges for clearing		posit 59,638 75
house 1,856	41	Savings deposits 14,424 30
Cash on hand 9,928	72	Bills payable 10,000 00
Expenses 4,963	75	• •
Total\$243,167	89	Total \$243,167 89

#### TEKOA-TEKOA STATE BANK.

D. W. TRUAX, President.		O. D. McKeehen, Cashie	er.
RESOURCES.		LIABILITIES.	
Loans and discounts.   \$204,408	32 17 00 25 08 67 45	Capital paid in       \$30,000         Surplus fund       6,000         Undivided profits       13,830         Postal savings deposit       542         Deposits subject to check       100,385         Demand certificates of deposit       7,841         Time certificates of deposit       67,458         Savings deposits       26,868	00 95 03 15 67
Total\$252,926		Total \$252,926	71

#### *THORNTON-COMEGYS, HANFORD & MILLER BANK.

H. W. HANFORD, President.		RALPH COMEGY	s, <i>Cashi</i>	er.
RESOURCES.		LIABILITIES.		
Loans and discounts \$100,309	88	Capital paid in	\$15,000	00
Overdrafts 234		Undivided profits	3.809	
Stocks and other securi-	••	Deposits subject to check.	81,833	
ties 500	ω	Demand certificates of de-	02,000	v
Banking house 3,000		posit	70	70
			10	10
Furniture and fixtures 1,500		Time certificates of de-		
Due from banks 10,670	71	posit	21,893	60
Checks and other cash		=		
items 9	40			
Cash on hand 3.805				
Expenses 2,586				
Expenses 2,000	10			
Total\$122,615	69	Total	\$122,615	69

^{*} Formerly private bank.

#### UNIONTOWN-FARMERS STATE BANK.

S. HILLIARD, President.	C. W. BEAN, Cashier.
RESOURCES.	LIABILITIES.
Loans and discounts       \$146,368       36         Overdrafts       201       68         Bonds and warrants       378       20         Banking house       5,000       00         Other real estate owned       1,000       00         Due from banks       13,848       98         Cash on hand       3,181       59         Expenses       9,197       54	Capital paid in
Total\$179,176 35	Total\$179,176 35

#### WINONA-BANK OF WINONA.

W. C. Morrow, President.	Louis Eilert, Cashie	
RESOURCES.	LIABILITIES.	
Loans and discounts       \$104,595       08         Overdrafts       233       76         Banking house       2,540       25         Furniture and fixtures       1,908       64         Due from banks       11,639       73         Cash on hand       1,419       01         Expenses       4,432       76	Capital paid in	
Total \$126,769 23	Total\$126,769 23	

# YAKIMA COUNTY.

#### GRANDVIEW-GRANDVIEW STATE BANK.

E. O. Keck, President.	A. W. HAWN, Cashier.
RESOURCES.	LIABILITIES.
Loan and discounts     \$105,780     06       Overdrafts     514     51       Bonds and warrants     1,538     46       Banking house     4,560     00       Furniture and fixtures     3,200     00       Due from banks     23,674     70       Checks and other cash less     776     85       Cash on banks     776     85	Capital paid in
Cash on hand	Certified checks 829 75
Total\$144,304 79	Total\$144,304 79

#### GRANGER-THE UNION BANK.

H. C. Davis, President.	A. C. Snowden, Cashier.
RESOURCES.   20	LIABILITIES.  Capital paid in
Total \$75,563 34	Total\$75,563 34

# YAKIMA COUNTY—CONTINUED.

#### MABTON-MABTON BANK.

EARL LARRISON, Cashier.
LIABILITIES.
Capital paid in       \$25,000       00         Surplus fund       600       00         Undivided profits       8,037       98         Deposits subject to check.       68,619       58         Demand certificates of deposit       1,668       37         Time certificates of deposit       25,366       77         Savings deposits       7,637       15         Certified checks       57       00         Bills payable       20,000       00
Total\$156,986 85
MOXEE STATE BANK. J. E. McGrath, <i>Cashier</i> .

D. H. DESMARAIS, Frestuent.		J. E. MCGRATH, Custitet.
RESOURCES.		LIABILITIES.
Bonds and warrants 45 Stocks and other securi-	08 75	Capital paid in
ties	00	Demand certificates of deposit
items       158         Cash on hand       967         Expenses       2,929	82	
Total\$40,771	96	Total\$40,771 96

#### NACHES-NACHES STATE BANK.

W. Goodsell, President.		J. R. REYNOLDS, Cashier.			
BESOURCES.			LIABILITIES.		
Bonds and warrants. Banking house 2,6 Furniture and fixtures 2,6 Other real estate owned 2,5 Due from banks. 13,6 Checks and other cash Items	257 9 110 1 36 4 500 0 000 0 935 6 057 8	13 44 00 00 30 34	Capital paid in       \$10,000       00         Surplus fund       6,500       00         Undivided profits       140       00         Deposits subject to check       40,212       37         Ibemand certificates of deposit       749       86         Time certificates of deposit       4,831       50         Savings deposits       3,814       25         Bills payable       5,000       00		
Total	247 8	98	Total\$71,247 98		

# YAKIMA COUNTY—CONTINUED.

#### NORTH YAKIMA-CENTRAL BANK AND TRUST COMPANY.

#### W. R. PHILLIPS, President.

#### ALFRED B. HOOD, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts\$	131.055	16	Capital paid in	\$50,000	00
Overdrafts	2,170		Surplus fund	500	00
Bonds and warrants	2,105	27	Undivided profits	11,338	45
Furniture and fixtures	12,000	00	Due to banks	1,200	80
Other real estate owned	6,071	80	Deposits subject to check.	88,696	25
Due from banks	18,239	43	Demand certificates of de-	•	
Checks and other cash			posit	393	00
items	775	39	Cashier's checks	23	40
Exchanges for clearing			Time certificates of de-		
house	2.459	84	posit	3.481	19
Cash on hand	3.506	18	Savings deposits	7.993	99
Expenses	10,256	62	Certified checks	12	50
	,		Bills payable	25,000	00
Total\$	188.639	58	Total	\$188,639	58

#### NORTH YAKIMA-YAKIMA TRUST COMPANY.

#### H. C. LUCAS, President.

#### E. P. HOFFMAN. Cashier.

resources.			LIABILITIES.		
Loans and discounts	\$357.068	72	Capital paid in	\$100,000	00
Overdrafts	1.889	77	Surplus fund	16,000	
Bonds and warrants	35.942	14	Undivided profits	27,097	19
Stocks and other securi-	,		Due to banks	981	79
ties	600	00	State deposits	25,000	00
Banking house	62,723	60	Deposits subject to check.	325.646	28
Furniture and fixtures	7.575	43	Demand certificates of de-		
Other real estate owned	9,386		posit	5.710	75
Due from banks	111,003		Cashier's checks	12	
Checks and other cash		-	Time certificates of de-		
items	1,870	41	posit	43.167	47
Exchanges for clearing	-,		Savings deposits	98,720	45
house	9,333	50	Certified checks	372	
Cash on hand	31,199		Trust funds	10.085	89
Expenses	24,200	21		,	
Total	\$652,793	63	Total	\$652,793	63

#### NORTH YAKIMA- YAKIMA VALLEY BANK.

#### O. A. FECHTER, President.

#### CHAS. HEATH, Cashier.

RESOURCES.			LIABILITIES.	
Loans and discounts \$1	538,562	21	Capital paid in \$100,000	00
Overdrafts	1,686	40	Surplus fund 8,500	00
Bonds and warrants	11,844	18	Undivided profits 14,953	78
Furniture and fixtures	11,815	00	Due to banks 20,436	13
Other real estate owned	2,324	00	Postal savings deposits 4,272	81
Due from banks	139.708	77	Deposits subject to check. 395.590	66
Checks and other cash			Demand certificates of de-	
items	1.814	94	posit 9.408	76
Exchanges for clearing			Cashier's checks 7.468	75
house	8.296	78	Time certificates of de-	
Cash on hand	42.064	14	posit 77,362	57
Expenses	10.036	62	Savings deposits 128,972	
			Certified checks 1,187	49
Total	768.153	04	Total\$768.153	04

# YAKIMA COUNTY-CONTINUED.

#### OUTLOOK-OUTLOOK STATE BANK.

W. H. Norman, Presiden	••		H. E. SCHROEDER	, 0	•
RESOURCES.			LIABILITIES.		
Loans and discounts Overdrafts Bonds and warrants Banking house Furniture and fixtures Other real estate owned Due from banks Checks and other cash items Cash on hand Expenses	2,154 600 900 9,000 3,154 177 1,066	56 72 00 00 00 64 27 46	Capital paid in	2,571	77 98 75 02 07
Total	\$50,994	60	Total	\$50.994	60

#### SELAH—SELAH STATE BANK.

C. S. Sundberg, President.		Elmer Dahlin, Cashier.
RESOURCES.		LIABILITIES.
Loans and discounts \$45,688	64	Capital paid in\$15,000 00
Overdrafts 467		Surplus fund 3.500 00
Bonds and warrants 419	63	Undivided profits 4,570 18
Banking house 3,100	00	Deposits subject to checks. 59,489 01
Furniture and fixtures 900	00	Demand certificates of de-
Due from banks 41,576	11	posit 3,625 64
Checks and other cash		Time certificates of deposit 10,337 08
items 51	70	- ·
Cash on hand 1,440	76	
Expenses 2,877	50	
Total\$96,521	91	Total\$96,521 91

#### SUNNYSIDE—THE SUNNYSIDE BANK.

R. G. PAGE, President.		C. VINCENT ZOOK, Cashier.			
RESOURCES.		LIABILITIES.			
Loans and discounts \$177,315	51	Capital paid in \$50	0.000	00	
Overdrafts 2,027	10		8.000		
Bonds and warrants 4.820			447	ŎŠ	
Banking house 19,000	00		0.384	53	
Furniture and fixtures 3.000		Demand certificates of de-	-,	- 12	
Other real estate owned. 6.560	40	posit	747	26	
Due from banks 25.521			6.839		
Checks and other cash		Time certificates of de-	.,		
items	82		0,286	06	
Cash on hand			7.882		
Cash on hadden in the cash of the cash of hadden	-		5,000		
Total\$249,587	02	Total \$249	9,587	02	

# YAKIMA COUNTY-CONTINUED.

#### TOPPENISH-CENTRAL BANK OF TOPPENISH.

#### H. M. GILBERT, President.

H. B. MILLER, Cashier.

RESOURCES.			LIABILITIES.		
Loans and discounts	\$85.834	49	Capital paid in	\$50,000	00
Overdrafts	611		Undivided profits	5,007	
Bonds and warrants	862		Due to banks	2.118	
Bunking house	41.066		Deposits subject to check.	71.769	
Furniture and fixtures	3.089		Demand certificates of de-	11,100	••
Other real estate owned	1.094		posit	3.078	43
Due from banks	4.864		Cashier's checks	2.377	
('hecks and other cash	.,		Time certificates of de-	4,0	
items	90	91	posit	8,048	75
Exchanges for clearing	20	01	Savings deposits	5.098	
house	421	80	Certified checks	152	
Cash on hand	7.331		Certified checks	102	00
Expenses	2,442				
tarlamana	4774	1111			
Total	\$147,649	21	Total	\$147,649	21

#### TOPPENISH-THE TRADERS BANK.

#### J. D. CORNETT. President.

W. S. DORAN. Cashier.

J. D. CORNELL, I router.		W. D. Bollin, Cubiton			
RESOURCES.		LIABILITIES.			
Ronds and warrants	20 08 29 63 309 63 83 00 34 94 48 43 40 83 65 16 660 45	Capital paid in	\$25,000 5,000 6,523 8,012 138,184 2,145 12,968 25,021 1,025	00 06 65 76 78 30 63	
Total \$223.8	89 12	Total	\$223,881	27	

# REPORT OF TRUST COMPANIES AT CLOSE OF BUSINESS OCTOBER 31, 1915.

#### KING COUNTY.

#### SEATTLE-SEATTLE TRUST COMPANY.

J. E. CHILBERG, President.		A. F. Bailey, Secretary-Treasurer.					
RESOURCES.		LIABILITIES.					
Bonds and warrants 3,2 Stocks and other securi-	55 30 865 75	Capital paid in	00				
Other real estate owned 66,8	051 92 358 85 167 45	Deposits of trust funds and escrow accounts 48,250	33				
items       1.0         Cash on hand       7         Accounts receivable       16,2	041 90 118 51 294 06 237 61						
Total\$383,2	291 35	Total \$383,291	35				

#### SEATTLE-TITLE TRUST COMPANY.

J. W. MAXWELL, President.	CHARLTON L. HALL, Secretary.
RESOURCES.	LIABILITIES.
Loans and discounts \$111.600 86	6 Capital paid in \$250,000 00
Bonds and warrants 9,366 63	3 Surplus fund 25,000 00
Stocks and other securi-	Undivided profits 25,952 13
ties 162,200 71	1 Dividends unpaid 210 94
Furniture and fixtures 6,000 00	0 Trust accounts 4,901 23
Other real estate owned 14,342 33	3 Current real estate loan
Due from banks 7.492 2-	4 accounts 13.616 74
Trust funds 4,901 23	3 Escrow and other agency
Cash on hand 534 76	6 accounts 2,565 49
Real estate contracts 1.466 9-	
Advances to trusts 149 70	0
Expenses 4.191 13	3
Total\$322,246 55	3 Total

#### SEATTLE-UNION TRUST COMPANY.

WATSON C. SQUIRE, President.

RESOURCES.		LIABILITIES.	
Real estate contracts \$8,841 : Notes and mortgages on	30	Capital paid in	
real estate		23	••••
Total \$586,805	90	Total \$586,805	- 90

# KING COUNTY—CONTINUED.

#### SEATTLE-UNITED STATES TRUST COMPANY.

SAMUEL HILL, President.	EBEN F. WELLS, Secret
RESOURCES.	LIABILITIES.
Stocks and other securities	Capital paid in \$500.000 Surplus fund 1,000.000
Total\$1,500,000 00	Total\$1,500,000

# OKANOGAN COUNTY.

# OROVILLE-UNION TITLE AND TRUST COMPANY.

S. C. MITCHELL, President.	L. L. Work, Secreto
RESOURCES.	LIABILITIES.
Stocks and discounts \$9,078 26 Stocks and other securi- ties 29,648 33 Furniture and fixtures 732 32 Other real estate owned 11,265 66 Due from banks 95 48 Fees advanced to clients 342 07 17xpenses 1,906 34	Capital paid in       \$40,000         Surplus fund       400         Undivided profits       1,060         Bills payable       11,477         Collections       121
Total	Total\$53,068

# SPOKANE COUNTY.

# SPOKANE-CLARK BROS. & KLEIN TRUST CO.

P. W. CLARK, President.	J. B. Clark, Secrete
RESOURCES.	LIABILITIES.
Ioan   and discounts   \$1,150 00     Ine from banks   45,962 24     Cash on hand   147 44     Advance   3,152 73     Advance   144 64     Expenses   144 64	Capital paid in.       \$15,00         Undivided profits       75         Due to individuals       20,34         Trust deposit       7,67         Collections       6,77
Total \$50,557 03	Total\$50.55

#### SPOKANE COUNTY—CONTINUED.

#### SPOKANE-WASHINGTON SAFE DEPOSIT & TRUST CO.

WM. S. MCCREA, P	resident.
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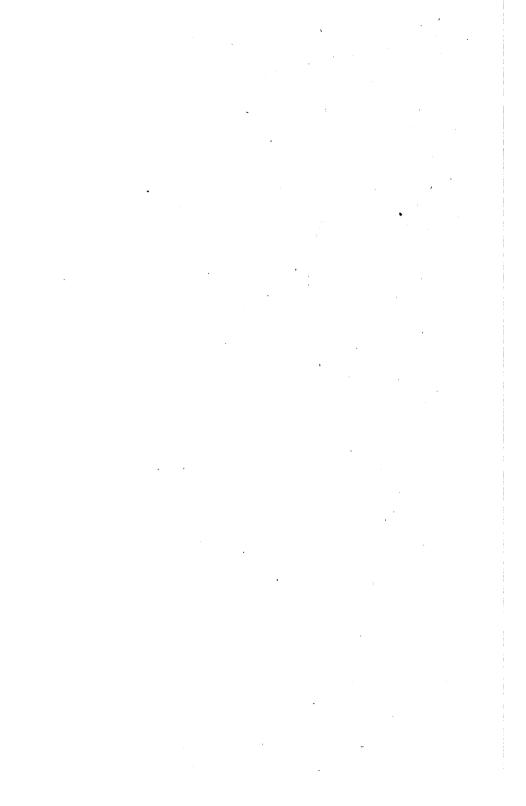
WALTER G. MERRYWEATHER, Vice-President and Secretary

·			Vice-President and Secretary.
RESOURCES.			LIABILITIES.
Loans and discounts Stocks and other securi-	\$43,393	75	Capital paid in \$100,000 00 Surplus fund 143,442 76
ties	67.161	25	Undivided profits 7.882 69
Furniture and fixtures	22,020	00	Due to banks 10.000 00
Other real estate owned	213,457	19	Due to individuals 91.948 00
Due from banks	4.216	59	
Cash on hand	259	04	
Cash on hand Expenses	2,765	63	
Total	\$353,273	45	Total \$353.273 45

# WALLA WALLA COUNTY.

# WALLA WALLA WALLA SAFETY DEPOSIT & TRUST CO. W. P. LATHROP, President. T. A. PAUL, Cashier.

RESOURCES.		LIABILITIES.		
Furniture and flxtures	\$4,000 00	Capital paid in	\$4,000	00
Total	\$4,000 00	Total	\$4,000	_ 00



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# **TENTH ANNUAL REPORT**

OF THE

# State Bank Examiner

OF THE

# STATE OF WASHINGTON



**DECEMBER 31, 1916** 

BY
W. E. HANSON
State Bank Examiner

OLIMPIA:

PRANE M. LAMBORN PUBLIC PRINTER

1917



# ROSTER OF THE BANKING DEPARTMENT.

W. E. HANSON, State Bank Examiner	0
C. S. MOODY, Deputy State Bank Examiner	c
CLAUDE P. HAY, Deputy State Bank Examiner	
LOUIS H. MOORE, Deputy State Bank Examiner	
R. A. LANGLEY, Special Deputy State Bank Examiner	•
NORA E. HARBY, Secretary	0
Parent D Un Assistant	

# STATE BANKING DEPARTMENT. STATE OF WASHINGTON.

OLYMPIA, WASH., December 81, 1916.

Honorable Ernest Lister, Governor of the State of Washington, Olympia:

Siz: In accordance with section thirty-eight (38), chapter two hundred twenty-five (225), of the Session Laws of the State of Washington for 1907, I have the honor to submit herewith the tenth annual report of this department, which exhibits the condition of two hundred seventy-nine (279) state banks and trust companies, and nine (9) trust companies not acting in a banking capacity, operating in this state at the close of business at date of last call, November 17, 1916.

# TENTH ANNUAL REPORT OF THE STATE BANK EXAMINER.

During the year 1916, five reports were asked for and made to this department, on the same dates reports were made by the national banks to the Comptroller of the Currency, to-wit: March 7th, May 1st, June 30th, September 12th and November 17th.

During the year, eleven state banks and trust companies were organized and authorized to do business by this department. There were eight consolidations, one failure and one bank reopened for business.

Three hundred ninety-nine (399) regular examinations were made, according to law, of state banks and their branches, and trust companies, including those that are doing a banking business as well as those doing exclusively a trust business. For these services, fees were collected amounting to \$16,653.84. The fee is \$25 for each examination and 1/200 of 1 per cent. of the deposits at the date of examination.

Deposits of state institutions have increased \$32,207,157.59 since the last report of 1915, as shown by the following comparative statement of condition. This is the largest increase in deposits in the history of the state. The farming communities have enjoyed good crops and exceptionally high prices for all produce and grain raised. Conditions in the lumber districts of the state have greatly improved in the past few months; practically all of the mills that have been closed for the past two or three years have resumed business, and in most instances have enlarged their plants.

Total Resources and Liabilities of 279 State Banks and Nine Trust Companies in the State of Washington, at Close of Business on November 17, 1916, Compared With Call of November 10, 1915, Reported by 276 State Banks and Eight Trust Companies.

RESOURCES	R	ES	0	U	R	C	ES.	
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Loans on real estate.....

Other loans and discounts.....

Nov. 10, 1915.

56,761,810 05

222,835 28

.. \$12,948,402 78

Nov. 17, 1916.

\$14,107,624 05

70,895,676 09

312,746 08

Bonds and warrants	13,905,349	88	17,736,614	25
Stocks and other securities	2,899,236	62	3,250.464	30
Banking house	4,937,864	78	5,615,286	26
Furniture and fixtures	1,095,309	05	1,099,673	72
Other real estate owned	3,949,793	18	4,299,798	91
Due from banks	21,535,810	21	32,184.443	14
Checks and cash items	422,742	00	549,589	80
Exchanges for clearing house	695,108	72	939,350	63
Cash on hand	6,474,824	38	6,886,158	32
Expenses	1,617,698	26	1,892,489	34
Letters of credit			86,792	17
Other resources	36,969	32	48,742	51
Acceptances			200,000	00
Total resources\$	127,503,254	51	\$159,605,449	57
LIABILITIES.				
Capital stock	15,621,700	00	\$15,847,700	00
Surplus	4,390,379		4,447,160	89
Undivided profits	3,732,048	98	4,424,645	44
Dividends unpaid	6,734	44	4,316	59
Due to banks	5,733,031	68	11,545,356	60
City, county and state deposits	2,293,574	54	2,764,090	35
Postal savings deposits	636,192	05	663,805	10
Deposits subject to check	42,741,389	58	58,362,582	41
Demand certificates	1,919,902	50	2,685,477	32
Cashier's checks	543,074	80	924,662	36
Time certificates	8,770,902	02	11,811,303	49
Savings deposits	38,712,375	19	44,351,146	38
Certified checks	141,878	34	219,622	14
Trust funds	148.703	43	431.360	94
Letters of credit	3,355		92,179	
Re-discounts	358,860	53	87.707	45
Bills payable	1,669,164		685,679	
Other liabilities	79,987	13	56,702	
Acceptances			200,000	00
Total liabilities\$	127,503,254	51	\$159,605,449	57
Total deposits, November 10, 1915			\$101,644,379	13
			0100 OK1 KOA	70

On January 4th, 1916, this department took charge of the affairs of the Cowlitz County Bank of Kalama, Washington. Claims amounting to \$112,493.74 have been filed against the bank. Two dividends have been paid to creditors, amounting to 25%. There remains, at this time, unpaid claims amounting

Total deposits, November 17, 1916......\$133,851.536 72

to \$74,261.58. This department has rejected, as preferred claims, the claims of the city of Kalama for \$7,287.14 and Nils Olson for \$494.95, and has allowed them as common claims. No dividends have been paid on them, as both cases are now pending in the superior court of Cowlitz county.

The affairs of the First International Bank of South Bend, Washington, which bank was closed by this department on July 19th, 1915, are being adjusted under considerable difficulty, being in such a tangled condition that it has been necessary to appeal to the courts in most instances, for adjustment.

Claims have been filed and approved amounting to.	\$163,428 98
Claims filed but not adjusted	18,532 45
Claims filed as preferred and allowed	71 50
Claims rejected	7,888 77
Preferred claims rejected	2.682 58

The following summary of "due from banks," or the deposits of state institutions with their reserve agents, shows that a larger percentage of the reserves at this time are with other state institutions than at the last annual report.

#### DUE FROM BANKS.

N	Nov. 10, 191	15.	Nov. 17, 191	16.
Due from national banks outside of the state	\$5,936,202	94	\$8,292,284	48
Due from national banks in the state	8,207,863	95	12,435.132	62
Total due from national banks	\$14,144,066	89	\$20,727,417	05
Due from state banks outside of the state	\$2,075,856	95	\$4,005,995	18
Due from state banks in the state	2,561,026	62	4,449,310	80
Total due from state banks	\$4,636,883	57	\$8,455,305	93
Due from sundry banks, including foreign countries	\$2,754,859	75	\$3,001,720	16
Total due from banks	\$21,535,810	21	\$32,184,448	14

A new banking code has been drafted and will be presented to the legislature for passage. I have been consulted in the drafting of this code and am familiar with its contents and I do not hesitate to recommend it for passage, as I believe that it contains all the essentials necessary to a good banking code. It is a great improvement over our present bank and trust company laws, for the banker as well as the depositor.

Respectfully submitted,

W. E. HANSON, State Bank Examiner.

# EXPENSES AND RECEIPTS.

Expenses from January 1, 1916, to December 31, 1916, inclusive, consist of the following:
Salaries       \$11,800 00         Traveling, office and other expenses       5,895 27
Total expenses of department
Receipts of the department from January 1, 1916, to December 31, 1916, inclusive, are as follows:
Fees for examinations\$16,653 84
Miscellaneous receipts, filing reports, fines assessed, etc
Total receipts of department\$17,116 39
Detailed statement of money received:

#### etailed statement of money received:

Examination Fees.		
	Amor	
Bank of Commerce, Everett (Pine St. Branch)		
Bank of Commerce, Everett	58	40
Citizens State Bank, Auburn	28	
Everett Trust & Savings Bank, Everett	47	10
Vashon State Bank, Vashon	29	
Ridgefield State Bank, Ridgefield	27	35
Citizens Bank, Bremerton	34	50
The Mabton Bank, Mabton	80	25
Grant County Bank, Ephrata	30	40
State Bank of Spangle, Spangle	28	80
Comegys, Hanford & Miller Bank, Thornton	30	75
Orting State Bank, Orting	29	55
Columbia Valley Bank, Wenatchee	50	70
Castle Rock Bank, Castle Rock	33	35
Citizens State Bank, Tekoa	33	45
Mansfield State Bank, Mansfield	30	65
Little Falls State Bank, Vader	27	80
Farmers & Merchants Bank, Centralia	45	
Centralia State Bank, Centralia	34	
Pe Ell State Bank, Pe Ell	25	
Douglas County Bank, Waterville	46	
Withrow State Bank, Withrow	31	
Dexter Horton Trust & Savings Bank, Seattle	225	
Waterville Savings Bank, Waterville	34	
State Bank of Shelton, Shelton	41	
Citizens Bank of Georgetown, Seattle	30	
Bremerton Trust & Savings Bank, Bremerton		00
West Seattle State Bank, Seattle	27	
Bank of Clallam County, Port Angeles		10
State Bank of Concrete, Concrete		25
Bank of Commerce, Anacortes		
		25
Waverly Exchange Bank, Waverly		10
Arlington State Bank, Arlington		70
Citizens State Bank, Arlington		70
State Bank of Battleground, Battleground		90
Northwest Trust & Safe Deposit Co., Seattle		
Bank of Rosalia, Rosalia	34	60

	_	
Received from	Amo	
Citizens Bank & Trust Co., Everett	<b>\$</b> 38	
Commercial State Bank, Oakesdale	40	30
Bank of Winona, Winona	27	80
Merchants Bank, Port Townsend	51	80
Oakville State Bank, Oakville	26	95
Brooks & Company Bank, Goldendale	31	45
The Bank of Endicott, Endicott	30	65
Farmers State Bank, Centerville	28	45
Harrington State Bank, Harrington	33	75
Almira State Bank, Almira	40	80
Elberton State Bank, Elberton	27	80
State Bank of Wilbur, Wilbur	47	60
State Bank of Sequim, Sequim	27	85
lone State Bank, Ione	29	10
Security State Bank, Newport	36	05
Kitsap County Bank, Port Orchard		00
l'nion State Bank, Odessa	47	
Creston State Bank, Creston	32	
Bank of Farmington, Farmington	30	
Metaline Falls State & Savings Bank, Metaline Falls		60
Bank of Montreal, Spokane	108	
Lamont State Bank, Lamont		80
		45
Security State Bank, Spokane	28	
Farmers & Merchants Bank, Odessa	26	
Warden State Bank, Warden	31	05
Liberty Bay Bank, Poulsbo	26	-
Moxee State Bank, Moxee City	58	
Scandinavian American Bank, Spokane	26	
State Bank of Morton, Morton	27	15
Tolt State Bank, Tolt	34	
The Sunnyside Bank, Sunnyside	27	95
Union Bank, Granger		25
Metropolitan Bank, Seattle	140 225	
Spokane & Eastern Trust Co., Spokane	31	50
Grandview State Bank, Grandview	27	00
	136	10
Peoples Savings Bank, Seattle	27	
Naches State Bank, Naches		
St. John State Bank, St. John	33	
Guardian Savings Bank, Seattle		95
Knettle State Bank, Pomeroy		80
State Bank of Kent, Kent		95
Broadway State Bank, Seattle		05
Oak Harbor State Bank, Oak Harbor	27	
Bank of Commerce, Everett (Coupeville Branch)		25
Outlook State Bank, Outlook		65
Canadian Bank of Commerce, Seattle	200	
Union Savings & Trust Co., Seattle (Georgetown Branch).		50
Union Savings & Trust Co., Seattle (Ballard Branch)	48	
Puyallup State Bank, Puyallup	37	15
Union Savings & Trust Co., Seattle	225	
State Bank of Black Diamond, Black Diamond		90
Pine City State Bank, Pine City		60
Scandinavian American Bank, Seattle (Ballard Branch)	57	35
Scandinavian American Bank, Seattle		
Duvall State Bank, Duvall	27	80
Fidelity Trust Company, Tacoma	225	00 35
Parmera State Rank Summer	0.1	41.0

Received from	Amo	
Oriental American Bank, Seattle	\$34	
Omak State Bank, Omak	27	
Entiat State Bank, Entiat		80
Japanese Commercial Bank, Seattle	45	
Okanogan State Bank, Riverside		10
Molson State Bank, Molson	30	
Bank of Stevenson, Stevenson		90
State Bank of Lyle, Lyle	26	
Pacific State Bank, South Bend	49	
Farmers State Bank, Connell	-	
		20
Wilson Creek State Bank, Wilson Creek	29	
State Bank of Blaine, Blaine	28	
Commercial Bank, Conconully (Okanogan Branch)		90
Okanogan State Bank, Riverside (Loomis Branch)	27	
Bridgeport State Bank, Bridgeport	29	
Eltopia State Bank, Eltopia	26	
Union Title & Trust Company, Oroville		00
Baumeister, Vollmer & Scott Bank, Asotin	30	
Commercial Bank, Conconully (Chesaw Branch)	26	
Bank of Asotin County, Asotin		80
Custer State Bank, Custer	26	
Home State Bank, Blaine	81	
Bank of Bickleton, Bickleton	31	
Farmers & Merchants Bank, Springdale		85
Bank of Edwall, Edwall	31	
Wheeler State Bank, Wheeler		15
First State Bank, Deer Park	29	
State Bank of Conway, Conway	26	
First State Bank, Clear Lake	27	
Hamilton State Bank, Hamilton	27 27	15
State Bank of Clarkston, Clarkston	25	
Seattle Trust Company, Seattle	25	
North Pacific Bank, Tacoma	35	
State Bank of Charleston, Charleston	26	
Orient State Bank, Orient	26	
First Bank of Anatone, Anatone	26	60
Bank of Colville, Colville	40	95
Bank of Chewelah, Chewelah	30	10
Lincoln County State Bank, Davenport	37	55
Othello State Bank, Othello	28	35
Colville Loan & Trust Co., Colville	31	30
Citizens State Bank, Puyallup	41	75
San Juan County Bank, Friday Harbor	37	85
Ferry County State Bank, Republic	33	
Bank of Colville, Colville (Kettle Falls Branch)	27	
Port Angeles Trust & Savings Bank, Port Angeles	32	
Fremont State Bank, Seattle	32	
Washington Trust Company, Spokane	89	75
Hunters Exchange Office, Hunters (Branch of Lincoln		
County State Bank, Davenport)	28	
State Bank of Goldendale, Goldendale	36	
Glenwood State Bank, Glenwood	25 36	
Farmers & Mechanics Bank, Spokane  Peoples State Bank, Walla Walla		40
Bank of Sprague, Sprague		50
Commercial Bank, Conconully	27	
Farmers State Bank, Winthrop		50

Received from	4
Columbia State Bank, White Salmon	Amount. \$33 80
Washington Frahanga Pank Vancoures	
Washington Exchange Bank, Vancouver	36 75
Farmers Bank, Krupp	29 80
Wahklakum County Bank, Cathlamet	30 30
Southwestern Washington Bank, Ilwaco	28 45
Montesano State Bank, Montesano	49 80
Commercial Bank, Twisp	80 85
Miners & Merchants Bank, Chelan	82 85
Security State Bank, Chehalis	38 15
Bank of Ellensburg, Ellensburg	84 90
Parmers State Bank, Hatton	27 70
Bank of Pasco, Pasco	80 85
State Bank of Connell, Connell	81 65
State Bank of Winlock, Winlock	29 45
Kelso State Bank, Kelso	36 45
First Bank of White Bluffs, White Bluffs	27 55
Napavine State Bank, Napavine	26 25
Ruff State Bank, Ruff	28 80
Clarke County Bank, Washougal	29 15
First State Bank, Yacolt	27 70
Toledo State Bank, Toledo	28 90
Methow Valley Bank, Pateros	25 95
Quincy Valley State Bank, Quincy	29 90
Green Lake State Bank, Seattle	31 70
Willapa Harbor State Bank, Raymond	48 10
Commercial Bank & Trust Co., Wenatchee	87 55
Leavenworth State Bank, Leavenworth	<b>36 9</b> 0
Kalama State Bank, Kalama	28 65
Ferndale State Bank, Ferndale	81 00
Nooksack Valley State Bank, Everson	28 45
Woodland State Bank, Woodland	80 40
Field & Lease, Bankers, Centralia	36 80
Roy State Bank, Roy	28 75
Tekoa State Bank, Tekoa	84 75
First State Bank, Garfield	81 40
Issaquah State Bank, Issaquah	30 15
Security State Bank, LaCrosse	28 40
Farmers & Merchants Bank, Malden	30 90
Lumberman's Bank, Hoquiam	48 60
Bank of Elma, Elma	34 40
Citizens Bank, Renton	37 20
	63 40 38 75
Exchange Bank, Waitsburg	81 70
Redword State Bank, Redword	29 85
Colfax State Bank, Colfax	30 15
	26 70
North Side State Bank, Seattle	
Garrison Bros. State Bank, Sumas	79 15
Northwestern State Bank, Bellingham	74 70
Lynden State Bank, Lynden	36 80
German American State Bank, Ritzville	40 25
Cle Elum State Bank (Roslyn Branch)	40 30
Farmers & Merchants Bank, Edison	27 65
Spokane State Bank, Spokane	
Clark Bros. & Klein Trust Co., Spokane	25 00
Union Tweet & Sawings Rank Snokana	104 80

Received from	
received // one	Amount.
Skagit County Savings Bank & Trust Co., Mt. Vernon	\$55 10
C. E. Bingham & Co. Bank, Sedro Woolley	47 25
Washington Safe Deposit & Trust Company, Spokane	25 00
Colville Loan & Trust Co., Colville	30 60
Miners & Smelters Bank, Northport	30 65
Citizens Bank, Anacortes	35 20
Lyman State Bank, Lyman	28 00
LaConner State Bank, LaConner	32 05
Farmers Bank, Ellensburg	51 35
Mortgage Trust & Savings Bank, Seattle	55 95
Farmers State Bank, Johnson	26 50
Colton State Bank, Colton	30 70
Farmers State Bank, Uniontown	32 50
	43 90
Albion State Bank, Albion	
King County State Bank, Seattle	30 25
Langley State Bank, Langley	26 75
First State Bank, LaCrosse	
Citizens Bank, Sultan	
United States Trust Co., Aberdeen	
Wall Walla Safety Deposit & Trust Co., Walla Walla	
Kittitas State Bank, Kittitas	
Rainier Valley State Bank, Seattle	
Pomeroy State Bank, Pomeroy	
First Savings & Trust Bank of Whitman County, Colfax	
Steptoe State Bank, Steptoe	
Bank of Starbuck, Starbuck	
Farmers State Bank, St. John	
First State Bank, Prescott	
Bank for Savings, Seattle	
Tacema Savings Bank & Trust Co., Tacoma	
Puget Sound State Bank, Tacoma	
University State Bank, Seattle	
State Bank of East Stanwood, East Stanwood	
Kirkland State Bank, Kirkland	
Security State Bank, Palouse	
Rucker Bank, Hartford	
Traders Bank, Toppenish	
Security State Bank, Richland	
Marysville State Bank, Marysville	
Selah State Bank, Selah	
State Bank of Edmonds, Edmonds.	
State Bank of Enumciaw, Enumciaw	
Commercial bank of Snohomish County, Snohomish	
Specie Bank, Seattle	
Granite Falls State Bank, Granite Falls	
Lincoln Trust Company, Spokane	
Bank of Commerce, Everett (Pine St. Branch)	
Prosser State Bank, Prosser	
Bank of Latah, Latah	
Bank of Stanwood, Stanwood	
American Savings Bank & Trust Co., Seattle	
State Bank of Buckley, Buckley	
Peoples State Bank, Enumclaw	
Bank of Commerce, Everett	
LeCenter State Rank LeCenter	27 90

Decalus & Accom		
	Amor	
Ridgefield State Bank, Ridgefield		
Bankers Trust Company, Tacoma	80	80
First Bank of Wilkeson, Wilkeson	33	70
Cle Elum State Bank, Cle Elum	51	10
State Bank of North Bend, North Bend	28	35
Coulee State Bank, Coulee City	34	00
Hartline State Bank, Hartline	32	90
Yakima Trust Company, North Yakima	78	30
Central Bank & Trust Company, North Yakima	55	10
Farmers & Merchants Bank, Cashmere	33	40
Citizens State Bank, Prosser	34	
Central Bank, Toppenish	81	
German American Mercantile Bank, Seattle	95	
Northern Bank & Trust Company, Seattle	126	
Grant County Bank, Ephrata	32	
Farmers & Lumbermens Bank, Elma	31	
Citizens Bank, Tenino	27	25
Farmers State Bank, Almira	82	
Cashmere State Bank, Cashmere	30	
Columbia Valley Bank, Wenatchee	60	
Aberdeen State Bank, Aberdeen	35	
Scandinavian American Bank, Tacoma	156	
Hayes & Hayes, Bankers, Aberdeen		15
Douglas County Bank, Waterville	47	00
Withrow State Bank, Withrow	32	50
Waterville Savings Bank, Waterville	87	85
Farmers State Bank, Sprague	27	50
Seaboard Bank, Seattle	86	60
Citizens State Bank, Auburn	29	15
Eatonville State Bank, Eatonville	27	80
State Bank of Spangle, Spangle	33	55
Bank of Fairfield, Fairfield	36	95
Hillyard State Bank, Hillyard	42	20
Wall Street Bank, Spokane	27	50
Farmers & Merchants Bank, Centralia		75
Broadway State Bank, Seattle	34	
Castle Rock Bank, Castle Rock	33	
Vashon State Bank, Vashon	29	
Centralia State Bank, Centralia	35	
Citizens Bank, Bremerton	35	
West Seattle State Bank, Seattle	28	
Farmers & Merchants Bank, Bockford	34	
PeEll State Bank, PeEll	26	-
Comegys, Hanford & Miller Bank, Thornton	33	
Citizens State Bank, Tekoa	, 38	
Lamont State Bank, Lamont	35	
Farmers State Bank, Reardan	40	
State Bank of Wilbur, Wilbur	53	
Bank of Clallam County, Port Angeles	45	
State Bank of Sequim, Sequim	28	
Merchants Bank, Port Townsend	56	
Almira State Bank, Almira	44	_
Kitsap County Bank, Port Orchard	30	
Citizens Bank of Georgetown, Seattle	31	
Bremerton Trust & Savings Bank, Bremerton	32	
Orting State Bank, Orting	29	
Creston State Bank, Creston	35	80
Bank of Rosalia, Rosalia	38	60

Received from	Amount.	
	\$73 05	•
Puget Sound State Bank, Tacoma	225 00	
	29 25	
Elberton State Bank, Elberton	42 40	
Bank of Endicott, Endicott		
The Mabton Bank, Mabton	32 45	
Bank of Farmington, Farmington	36 25	
Waverly Exchange Bank, Waverly	32 00	
Bank of Winona, Winona	82 40	
Mansfield State Bank, Mansfield	35 50	
Spokane & Eastern Trust Co., Spokane	225 00	
Ione State Bank, Ione	<b>3</b> 0 75	
Northwest Trust & Safe Deposit Co., Seattle	126 75	
Oakville State Bank, Oakville	27 75	
State Bank of Shelton, Shelton	42 25	
Security State Bank, Newport	<b>38 70</b>	
Metaline Falls State & Savings Bank, Metaline Falls	28 15	
Arlington State Bank, Arlington	34 30	
Everett Trust & Savings Bank, Everett	52 05	
Citizens State Bank, Arlington	37 65	
Puyallup State Bank, Puyallup	41 00	
Bank of Winona, Winona	32 25	
St. John State Bank, St. John	46 30	
Pine City State Bank, Pine City	31 85	
Moxee State Bank, Moxee City	27 85	
Naches State Bank, Naches	28 40	
Bank of Commerce, Everett (Coupeville Branch)	31 20	
Outlook State Bank, Outlook	27 95	
Granite Falls State Bank, Granite Falls	28 50	
Duvall State Bank, Duvall	27 75	
Union State Bank, Odessa	52 85	
Union Bank, Granger	29 05	
Wilson Creek State Bank, Wilson Creek	30 60	
Sunnyside Bank, Sunnyside	39 25	
Grandview State Bank, Grandview	34 15	
Oak Harbor State Bank, Oak Harbor	27 90	
Touchet State Bank, Touchet	27 60	
Farmers & Merchants Bank, Odessa	34 10	
Knettle State Bank, Pomeroy	57 15	
Commercial State Bank, Oakesdale		
Tolt State Bank, Tolt	27 80	
State Bank of Kent, Kent	37 15	
Scandinavian American Bank, Spokane	69 95	
Bank of Montreal, Spokane	107 60	
Union Park Bank, Spokane	33 40	
Harrington State Bank, Harrington	41 55	
Entiat State Bank, Entiat	27 45	
Citizens Bank & Trust Co., Everett	47 20	
Bank of Edwall, Edwall	36 20	
First State Bank, Deer Park		
Farmers & Merchants Bank, Springdale	28 75	
Omak State Bank, Omak	30 30	
Bank of Colville, Colville	43 60 29 65	
Little Falls State Bank, Vader	28 10	
Wheeler State Bank, Wheeler		
Okanogan State Bank, Riverside		
Brooks & Co. Bank, Goldendale		
Commercial Bank, Concornlly (Chesaw Branch)		

Received from	<b>4</b>			
Home State Bank, Blaine	Amo			•
Custer State Bank, Custer				
Security State Bank, Spokane		95		
Okanogan State Bank, Riverside (Loomis Branch)		05		
		55		
Bank of Asotin County, Asotin		10		
Bridgeport State Bank, Bridgeport		60		
		95		
Molson State Bank, Molson		05		
		80		
State Bank of Buckley, Buckley		35		
Farmers State Bank, Connell		10		
Farmers State Bank, Sumner		15		
State Bank of Clarkston, Clarkston		40		
Warden State Bank, Warden		80		
Eltopia State Bank, Eltopia	28	40	\$16,658	84
-				
Filing Semi-Annual Reports.				
Received from	Amo	144.5		
United States Trust Company, Maryhill				
Union Trust Company, Seattle		00		
Seattle Trust Company, Seattle		00		
Title Trust Company, Seattle		00		
United States Trust Company, Maryhill		00		
Clark Bros. & Klein Trust Co., Spokane		00		
Lincoln Trust Company, Spokane				
		00		
Walla Walla Safe Deposit & Trust Company, Walla Walla		00		
Washington Safe Deposit & Trust Co., Spokane		00		
		00		
Union Trust Company, Seattle		00		
Title Trust Company, Seattle		00		
Seattle Trust Company, Seattle		00		
Clark Bros. & Klein Trust Co., Spokane		00		
Lincoln Trust Company, Spokane		00		
Walla Walla Safety Deposit & Trust Co., Walla Walla		00		
Washington Safe Deposit & Trust Co., Spokane		00		
United States Trust Co., Maryhill		00		
Union Title & Trust Co., Oroville	. 10	00	190	00
·				
Fines Assessed.				
Received from	Amo	unt.		
First Bank of Anatone, Anatone	\$40	00		
Farmers State Bank, Connell	10	00		
Glenwood State Bank, Glenwood	20	00		
Pullman State Bank, Pullman	10	00		
Waterville Savings Bank, Waterville		00		
Creston State Bank, Creston		00		
Citizens State Bank, Auburn		00		
Woodland State Bank, Woodland		00		
State Bank of Clarkston, Clarkston		00		
First State Bank, Garfield		00		
Bank of Starbuck, Starbuck		00	160	00
•				

#### Miscellaneous Collections.

Received from	Amount.	
Sale of annual reports		
Filing articles of incorporation (trust companies)		
Issuing certificates of authority (trust companies) Witness fees in Johnson trial at Raymond, Wash		
Witness fees in Pierson trial at Raymond, Wash		112 55
"Truess rees in Therson that at bouth bend, Wash	24 00	112 00
Total receipts for year		\$17,116 39

#### BANKS AUTHORIZED DURING THE YEAR 1916.

NAME OF BANK	Location	Capital Stock
Kalama State Bank. Farmers State Bank. Seaboard Bank. White Swan Bank. Community State Bank. American Security Bank. Commercial State Bank.	Winthrop	\$15,000 00 10,000 00 25,000 00 100,000 00 10,000 00 20,000 00 25,000 00

#### TRUST COMPANIES AUTHORIZED DURING THE YEAR 1916.

NAME OF COMPANY	Location	Capital Stock
Lincoln Trust Company	Spokane Tacoma Seattle	\$100,000 00 100,000 00 100,000 00

#### INCREASE OF CAPITAL STOCK.

NAME OF BANK	Location	Increased From	То
Withrow State Bank	Aberdeen Seattle	250,000 00 100,000 00	\$25,000 00 800,000 00 200,000 00 25,000 00

#### BANKS REOPENED.

NAME OF BANK	Location	Capital Stock
Bank of Oroville.	Oroville	\$15,000 00
	l .	1 ' '

#### BANKS CONSOLIDATED.

· >====================================			
NAME OF BANK	Location	CONSOLIDATED WITH	Date
Guardian Savings Bank	Blaine	Farmers State Bank	Apr. 10 Apr. 28
Genwood State Bank	Glenwood	Columbia State Bank, White Salmon	Nov. 16

#### BANKS FAILED.

NAME OF BANK	Location	Date Closed
Coults County Bank	Kalama	Jan. 4th

## TRUST FUNDS AS REPORTED BY THE TRUST COMPANIES AND THE BANKS DOING A TRUST COMPANY BUSINESS, AT CLOSE OF BUSINESS NOVEMBER 17, 1916.

Securities held in trust.  Red estate held in trust.  Trust funds	16.183.334 69
	\$25,431,489 99
Trusts & Coepted	\$25,431,439 99

#### TOTAL RESOURCES AND LIABILITIES OF 77 NATIONAL BANKS IN THE STATE OF WASHINGTON, AT CLOSE OF BUSINESS ON NOVEMBER 17, 1916.

#### RESOURCES.

Loans and discounts	\$82,152.000	00
Overdrafts	77,000	00
U. S. bonds	7,520,000	00
Other bonds, securities, etc. (other than stocks)	20,413,000	00
Stocks, including premium on same	660,000	00
Stock of Federal Reserve Bank	478,000	
Banking house	2,407,000	
Furniture and fixtures	618,000	
Other real estate owned	1,303,000	
Due from approved reserve agents	16.837.000	
Due from banks and bankers (other than above)	15,232,000	
Exchanges for clearing house	1,801.000	
Other checks on banks in the same place	192,000	00
Outside checks and other cash items	376,000	00
Notes of other national banks	429,000	00
Federal Reserve Bank notes	1.000	00
Federal reserve notes	111,000	00
Lawful reserve in vault, and with Federal Reserve Bank	12,979,000	
Redemption fund and due from U. S. Treasurer	332,000	
Customers' liability under letters of credit actually paid	565,000	
Customers' liability account of "Acceptances"	26,000	00
Other assets, if any	2,000	00

Total resources ......\$164,511,000 00

#### LIABILITIES.

Capital stock paid in	\$11,560,000	00
Surplus fund	4,574,000	00
Undivided profits, less expenses and taxes paid	1,921.000	00
Amount reserved for taxes accrued	155,000	00
Amount reserved for all interest accrued	102,000	00
Circulation outstanding	6,547,000	00
Due to banks and bankers, other than Federal Reserve Bank		
and approved reserve agents	24,665,000	00
Dividends unpaid	4,000	00
Demand deposits	76,003,000	00
Time deposits	37,848.000	00
Bonds borrowed	2,000	00
Securities borrowed	77,000	00
Bills payable, other than with Federal Reserve Bank	225,000	00
Cash letters of credit	602,000	00
Acceptances, based on imports and exports	26,000	00
Liabilities other than those above stated	200,000	00

Total liabilities ......\$164,511,000 00

	March 7, 1916, 276 State Banks	May 1, 1916, 275 State Banks	June 30, 1916, 276 State Banks, 9 Trust Com- panies	Sept. 12, 1916, 275 State Banks	Nov. 17, 1916, 279 State Banks, 9 Trust Com-
RESOURCES: Loans on real estate Loans on real estate Loans and discounts Overdratis Gonda and warrants Stocks and other securities Banking house Cherks and cash items Exchanges for clearing house Exchanges for clearing house Expenses Letters of Credit Other resources Aveptances	612, 453, 165 13 68, 311, 513 60 114, 1253, 638 12 126, 537, 191 57 1, 1015, 701 57 1, 1015, 801 57	512,000,461 47 51,489,647 17 24,489,647 17 24,890,1898 25 56,898,786 25 56,898,788 55 58,899,648 24 1,105,008 6,441,111 78 1,212,889 73	65, 206, 949 48 65, 77, 708 59 266, 188 72 16, 687, 276 59 1, 1065, 198 78 1, 1065, 198 78 14, 209 54 14, 209 54 11, 186 52 70 99 1, 186 52 70 99 1, 186 52 70 99 250, 198 79	28, 647 28 28 641 88 28 641 88 28 641 88 28 641 88 28 641 88 28 641 88 28 58 58 58 58 58 58 58 58 58 58 58 58 58	10, 107, 624 06 70, 139, 676 09 70, 139, 676 09 8, 1736, 614 59 8, 1089, 678 73 1, 1089, 788 73 1, 1089, 788 74 1, 1089, 788 78 1, 1087, 78 1, 108
Totals	\$126,297,122 66	\$181,405,889 47.	\$135,230,736 73	\$138,878,588 22	\$159,605,449 57
Capital stock Capital stock Surplus Undivided profits Undivided profits Dividends unpaid Dividends unpaid City. county and state deposits. Postal savings deposits. Deposits aubject to check. Demand certificates Cashier's checks Time certificates Savings deposits Time certificates Cashier's checks Time certificates Savings deposits Letters of credit Re-discounts Bills payable Gother liabilities Acceptances	\$13,582,700 00 8,009,886 99 2,187 875 17,982 69 6,888,874 82 11,982,874 145 46,105,106 74 80,005,44 88 192,487 46 40,005,44 88 193,600 10,487 47 40,005,44 88 193,600 10,487 47 40,005,44 88 193,600 10,487 47 40,005,487 48 40,005,487 48	\$106,577.00 00 8,106,877.29 2,886,886 175 29 2,886,886 175 29 2,886,886 175 29 2,886,886 175 29 2,886,886 175 29 2,887,887 38 3,987,887 38 3,987,987,987 38 3,987,987 38 3,987,987 38 3,987,987 38 3,987,987 38 3,987,987 38 3,987,987 38 3,987,987 38 3,987,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 3,987 38 38 38 38 38 38 38 38 38 38 30 3,987 38 39 30 30 30 30 30 30 30 30 30 30 30 30 30	4,176,972 00 04,176,972 08 2,071 082 08 2,071 082 08 3,402,408 08 4,513 70 44,513 70 44,513 70 44,513 70 110,509 20 17 52,513 70 11,525,135 98 88 2,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 250,000 00 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10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,089 99 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,09 10,722,0	447,700 00 4447,700 00 4447,100 89 1,43,646 44 1,43,646 89 2,764,886 90 2,764,886 10 82,882,873 80 82,882,873 80 11,811,803 40 11,811,803 40 11,811,803 40 11,813 809 11,803 40 11,803 40

DIRECTORY OF STATE BANKS AND TRUST COMPANIES REPORTING NOVEMBER 17, 1916.

Town	County	NAME OF BANK	Year	President	Cashier	Capital	Surplus	Deposits	Cash and Due from
			Inc.			Stock	Undivided		Banks
Aberdeen Grays Har	Grays Harbor	bor Aberdeen State Bank	1907	G. L. Nyere	G. W. Ripley	\$25,000	• \$2.470	\$23,178	\$67,914
Aberdeen Grays Har	Grays Harbor	Hayes & Hayes, Bankers	1904	F. B. Patterson	W. J. Patterson	300,000	70,785	2,780,555	565,477
Albion	Albion Whitman	Albion State Bank	1906	W. E. Lawson	J. E. Miller	25,000	18,174	67,768	66,980
Almira	Almira Lincoln	Almira State Bank	1906	Jens Peterson	Julius O. Johnson	25,000	87,156	479,268	287,178
Almira	Almira Lincoln	Farmers State Bank	1914	Fred H. Hyde	C. E. Alison	25,000	3,197	233,080	84,910
Anacortes	Skagit	Bank of Commerce	1906	Daniel Kelleher	Fred D. Cartwright	25,000	1,106	223,344	50,330
Anacortes	Anacortes Skagit	Oitizens State Bank	1907	M. B. Mattice	W. J. Mattice	25,000	2,886	250,782	68,401
Anstone	Asotin	First Bank of Anatone	1907	Elf Boliek	John K. McIntosh	10,000	899	79,456	68,788
Arlington Snohomisl	Snohomish	Arlington State Bank	1900	O. E. Bingham	O. H. Tracy	25,000	10,869	180,041	90,568
Arlington   Snohomis	Snohomish	Oftizens State Bank	1907	J. B. Riley	L. O. Palmer	15,000	18,815	250,689	73,567
Asotin Asotin	Asotin	Bank of Asotin County	180	Ben Ayers	J. B. Jones	25,000	9,276	287,294	197,189
Asotin	Asotin	Baumeister, Vollmer & Scott Bank	1914.	E. Baumelster	E. Matthes	15,000	5,819	711,092	221,063
Auburn	King	Citizens State Bank	1914	A. C. MacCallum	Ward M. Carter	50,000	818	87,023	85,926
Ballard King	King	Scandinavian American Bank(Branch of Scandinavian American			W. V. Rinebart, Mgr.				:
Ballard	King	Bank, Seattle.) Union Savings & Trust Company (Branch of Union Savings & Trust	i		O. W. Casler, Mgr				:
Battleground Clarke	Clarke			Fred Ellis	H. C. Cornell	10,000	508	36,179	19,554

* Expense

Directory of State Banks and Trust Companies Reporting November 17, 1916.—Continued.

E		ANYO BO SAYA		Dealdon	, and a	11.	8urpius		Oseh and
UMO.T	6 anno	nama	Inc.	1100111	Catalillor	Capital Stock	undivided Profits	enraodarr	Banks
Bellevue King	King	State Bank of Bellevue	1914	W. L. Ooliler	D. E. Bigelow	000'01	4,047	\$22,868	189,687
Bellingham	Bellingham Whatcom	Northwestern State Bank	1906	I. J. Adair	B. T. Drake	100,000	51,041	1,142,476	619, 164
Bickleton	Bickleton Klickitat	Bickleton State Bank	1906	Charles E. Flower	S. A. Rossier	22,000	13,726	262,844	186,207
Black Diamond King	King	State Bank of Black Diamond	1914	P. L. Bingay	John M. Lee	12,000	716	70,689	12,496
Blafne	Blaine Whatcom	Home State Bank	1908	G. A. Willison	O. K. Middleton	25,000	10,430	270,589	88,319
Bothell King	King	Bothell State Bank	1908	G. C. Hubbell	G. C. Hubbell	12,500	1,463	66,712	12,352
Bremerton Kitsap	Kitsap	Bremerton Trust & Savings Bank	1914	Geo. E. Miller		25,000	1,306	149,966	28,544
Bremerton Kitsap	Kitsap	Oftizens Bank	1900	S. Migliavacca	Ernest C. Ebert	20,000	7,919	206,094	80,983
Bridgeport	Bridgeport Douglas	Bridgeport State Bank	1906	Herman Cornehl	T. J. East	15,000	8,567	148,074	74,090
Buckley	Plerce	State Bank of Buckley	1937	O. O. Steberg	A. O. Johnson	25,000	2,827	186,262	45,416
Cashmere Chelan	Chelan	Oashmere State Bank	1907	Guy C. Browne	E. F. Stowell	25,000	7,520	146,221	81,224
Cashmere Chelan	Chelan	Farmers & Merchants Bank	1906	John C. Lilly	C. D. Halferty, Jr	25,000	6,985	249,364	77,601
Castle Rock	Castle Rock Cowlitz	The Castle Rock Bank	1904	J. A. Byerly	G. L. Buland	22,000	28,773	171,610	41,225
Cathlamet	Cathlamet Wahklakum	Wahkiakum County Bank	1900	Will T. Wright	Th. Fagstad	10,000	4,004	84,125	19,246
Centerville   Klickitat	Klickitat	Farmers State Bank	1914	L. T. Gillett	J. O. Kaidera	15,000	188	97,600	38,880
Centralia Lewis	Lewis	Centralla State Bank	1915	W. J. Patterson	M. W. Daubney,	100,000	9,916	216,546	49,041
Centralia Lewis	Lewis	Farmers & Merchants Bank	191	B. H. Rhodes	C. Paul Uhlmann	75,000	12,078	515,881	135,908

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Directory of State Banks and Trust Companies Reporting November 17, 1916.—Continued.

Тоwп	County	NAME OF BANK	Year Inc.	President	Oashier	Capital Stock	Surplus and Undivided Profits	Deposits	Oash and Due from Banks
Oentralia	Oentralia Lewis	Field & Lease, Bankers	1908	John A. Field	J. E. Lease	\$25,000	889'28	780,087	\$99,711
Charleston	Oharleston Kitsap	State Bank of Charleston	1914	F. J. Carver	A. E. Galbrafth	15,000	1,178	82,412	2,878
Obehalis	Ohehalis Lewis	Coffman, Dobson & Co., Bankers	1804	N. B. Coffman	D. T. Coffman	90,000	126,285	1,195,500	335,739
Ohehalis Lewis	Lewis	Security State Bank	1806	J. W. Alexander	W. J. Ford	25,000	23,192	285,460	768,99
Obelan Ohelan	Ohelan	Miners & Merchants Bank	1907	J. A. VanSlyke	H. W. VanSlyke	25,000	28,664	288,790	86,247
Chesaw Okanogan.	Okanogan	Commercial Bank (Branch of Com-	<u> </u>		J. B. Jones, Mgr				
Ohewelah Stevens	Stevens	conully.) Bank of Chewelah	1911	Thomas Bowers	Charles Adams	15 000	1,225	121,409	21,278
Clarkston	Clarkston Asotin	State Bank of Clarkston	1907	A. E. Clarke	Henry Elliott,	15,000	2,164	53,115	16,553
Olear Lake Skagit	Skagit	First State Bank	1914	C. E. Bingham	Q. R. Bingham	10,000	1,674	54,484	22,597
Ole Elum	Kittitas	Ole Elum State Bank	180	Frank Carpenter	L. R. Nelson	50,000	16,792	593,649	264,343
Oolfax	Whitman	Colfax State Bank	1906	J. K. McCornack	R. F. Bigelow	000'09	11,256	138,021	65,554
Colfax	Whitman	Ē	1806	Alfred Coolidge	H. G. DePledge	50,000	25,020	337,071	108,756
Colton	Whitman	Colton State Bank	1906	M. Schultbeis, Jr	A. B. Saider	15,000	4,501	262,324	100,466
Colville	Colville Stevens	Bank of Colville	1900	G. W. Peddycord	0. L. Baker	100,000	22,776	480,574	172,08
Colville	Colville Stevens	Colvine Loan & Trust Company	1800	C. H. Oarroll	Geo. W. Seal, Sec'y	25,000	1,616	183,296	29,298
Conconully Okanogan.	Okanogan	Commercial Bank	1800	N. E. Whitworth	F. J. May	40,000	18,236	213,058	56,739
Concrete Skagit	Skagit	State Bank of Concrete	1914	J. C. Wixson	Frank D. LaBold	10,000	2,980	80,178	286,883

Directory of State Banks and Trust Companies Reporting November 17, 1916,—Continued,

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Oounty	NAME OF BANK	Year Inc.	President	Onshier	Oapital Stock	Surplus and Undivided Profits	Deposits	Oash and Due from Banks	
Oonnell Franklin	Farmers State Bank	1916	O. W. Nelson	J. B. Helmick	000'01\$	879,13	\$112,807	\$50,378	
Oonneil Franklin	State Bank of Connell	1907	John H. Schlomer	W. H. Miller	15,000	6,406	248,088	77,789	
Conway Skagit	State Bank of Conway	1915	John S. Finstad	A. Garborg	10,000	1,780	65,381	24,808	
Coules Ofty Grant	Ooulee State Bank	1906	James Howell	J. B. Peterson	25,000	18,980	290,860	12,731	
Coupeville Island	Bank of Commerce	-		A. C. Fox, Asst.			:		
Oreston Lincoln	(Branch of Bank of Commerce, Everett.) Oreston State Bank	1902	J. M. Dungan	Geo. L. Duncan	25,000	11,277	280,200	107,908	
Ouster Whatcom	Ouster State Bank	1914	C. R. Behrne	А. F. Stone	10,000	58	112,217	16,869	
Davenport Lincoln	Lincoln County State Bank	1901	J. W. Fry	Fred S. Wells	60,000	12,254	560,308	101,055	
Deer Park Spokane	First State Bank	1907	O. F. Kally	Evan Berg	25,000	2,065	106,187	25,606	
Duvall King	Duvall State Bank	1912	A. H. Boyd	C. Beadon Hall	15,000	3,629	82,018	12,007	
East Stanwood Snohomish	State Bank of East Stanwood	1910	A. Garborg	C. R. Amundsen	15,000	0,020	118,024	30,387	
Eatonville Pierce	Estonville State Bank	1913	F. M. Roberts	Norman J. Bruen	10,000	88	98,595	10,486	
Edison Skagit	Farmers & Merchants Bank	1908	N. B. Hannay	J. K. Hannay	12,000	5,887	86,822	84,688	
Edmonds Snobomish	State Bank of Edmonds	1907	L. W. Lewis		25,000	4,672	101,220	24,801	
Edwall Lincoln	Bank of Edwall	1906	John F. Green	Ward Jesseph	25,000	6,579	256,187	121,404	
Whitman	Elberton State Bank	1900	J. F. Long	R. B. Walker	10,000	1,730	75,161	28,681	
Ellensburg Kittitas	Bank of Ellensburg	1901	E. H. Snowden	S. S. Nesbit	20,000	7,186	263,292	130,046	
Ellensburg Kittitas	Farmers Bank		James Ramsay	J. O. Sterling	900'00	84,178	668,108	286,988	
	Pranklin  Franklin  Gragit.  Grant.  G	Farmers State State Bank of State Bank of Coulee State I Bank of Committee State I Branch of Bank Ouster State Bank of Inncoin County First State Bank of Eatonville State Farmers & Mer State Bank of Bank of Edwa State Bank of Bank of Edwa Elberton State Bank of Edwa	Farmers State Bank.  State Bank of Connell.  State Bank of Conway  Coulee State Bank.  Bank of Commerce.  Branch of Bank of Commerce. Everett.)  Creaton State Bank.  Lincoin County State Bank  Pirst State Bank.  Duvall State Bank.  State Bank of East Stanwood.  Eatonylle State Bank.  State Bank of Edmonds  State Bank of Edmonds  Bank of Edwall.  Elberton State Bank.  Bank of Edwall.  Ebank of Edwall.	NAME OF BANK   Year   President Inc.   Parmers State Bank   1915   O. W. Nelson   1915   O. W. Nelson   1915   O. W. Nelson   1915   John H. Schlomer.   1916   John S. Finstad   1916   James Howell   1916   James Hank   Jame	NAME OF BANK   Year   President Inc.   Parmers State Bank   1915   O. W. Nelson   1915   O. W. Nelson   1915   John H. Schlomer.   1916   John S. Finstad   1916   John S. Finstad   1916   John S. Finstad   1916   James Howell   1917   James Howell   1918   James Hank   James H	Farmers State Bank         Year         Fresident         Cashler         Couplied           State Bank of Conneil         1905         C. W. Nelson         J. B. Helmick         40,000           State Bank of Conneil         1906         John B. Finstad         A. Garborg         10,000           Coulse State Bank         1906         James Howell         J. B. Peterson         25,000           Bank of Commerce.         Everenti.         1902         J. M. Dungan         A. C. Fox. Asst.         10,000           Christon State Bank         1901         J. W. Fry         A. P. Stone         25,000           Ouster State Bank         1901         J. W. Fry         A. P. Stone         10,000           Pirst State Bank         1902         J. M. Dungan         A. P. Stone         25,000           Duvall State Bank         1902         J. W. Fry         A. P. Stone         25,000           Pirst State Bank         1903         A. H. Boyd         C. Beadon Hall         15,000           State Bank of East Stanwood         1908         A. H. Boyd         C. Beadon Hall         15,000           State Bank of Edwall         1908         A. H. Boyd         C. R. Hannay         15,000           State Bank of Edwall         1906         J. W. L	Farmers State Bank         Year         Fresident         Cashler         Compital State Bank         To M. Neison         J. B. Heimick         \$10,000           State Bank of Conneil         1905         John H. Schlomet         W. H. Miller         15,000           State Bank of Conneil         1906         James Howell         J. B. Peterson         15,000           Bank of Commerce         To John S. Finstad         A. Garborg         10,000           Corules State Bank         1902         J. M. Dungan         A. G. Fox, Asst.         10,000           Christon State Bank         1902         J. M. Dungan         A. F. Stone         10,000           Unster State Bank         1901         J. W. Fry         Pred S. Wells         55,000           Pirst State Bank         1902         J. W. Fry         Pred S. Wells         55,000           Duvall State Bank         1903         A. H. Boyd         C. Beadon Hall         15,000           State Bank of East Stanwood         1903         A. H. Boyd         C. Beadon Hall         15,000           State Bank of Edwall         1908         A. H. Boyd         C. R. Hannay         15,000           State Bank of Edwall         1906         John F. Green         A. K. Hannay         15,000	Parmers State Bank         Year         Fresident         Cashler         Capital Stock Prints         Products Accounts         Products Accounts         Products Accounts         Products         Pr	Farmers State Bank         State Bank         Freshdant         Chapital Bund         Chapital B

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Directory of State Banks and Trust Companies Reporting November 17, 1916.—Continued.

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102,678	818,161	20,016	88,000	Van E. Sargent	Gene C. Gould	1898	San Juan County Bank	San Juan	Friday Harbor San Juan
50,003	157,231	8,867	15,000	Percy Hood	H. E. Campbell	1804	Ferndale State Bank	Whatcom	Ferndale
55,367	225,594	18,431	25,000	W. Claud Renfrew	Alfred Coolidge	1887	Bank of Farmington	Farmington Whitman	Farmington
146,402	288,759	6,766	12,000	O. E. Moss	Henry Treede	1906	Bank of Fairfield	Fairfield Spokane	Fairfield
40,400	199' 1621	1,913	15,000	Henry P. Johnson	B. Bollerud	1906	Nooksack Valley State Bank	Everson Whatcom	Everson
113,549	540,596	38,825	25,000		Wm. C. Butler	1902	Everett Trust & Savings Bank	Snohomish	Everett
183,882	472,589	23,016	100,000		N. L. Thompson	1912	Citizens Bank & Trust Company	Everett Snohomish	Everett
				D. W Dykeman,			Bank of Commerce (Pine St. Branch)	Everett Snohomish	Everett
386,237	1,077,890	25,868	100,000	E. C. Olson	Daniel Kelleher	1900	Bank of Commerce	Everett Snohomish	Everett
18,718	162,377	2,508	10,000	J. T. Wilkins	E. C. Davis	1912	Grant County Bank	Grant	Ephrata Grant
50,015	202,015	8,117	30,000	A. C. Johansen	S. Lafromboise	1804	State Bank of Enumelaw	King	Enumelaw
41,066	175,607	188'6	25,000	B. R. Kibler	B. R. Kibler	1910	Peoples State Bank	King	Enumelaw King
9,241	36, 498	144	10,000	J. G. Kennedy	Harmon Wilcox	1914	Entlat State Bank	Entiat Chelan	Entlat
190,474	331,907	9,547	25,000	M. A. Sherman, Jr.	M. A. Sherman	1908	Bank of Endicott	Endicott Whitman	Endlcott
81,664	88,350	3,953	10,000	W. C. Bannerman	Felix VanHollenbeck	1913	Eltopia State Bank	Franklin	Eltopia
48,850	151,231	7,507	20,000	W. L. Boomer	Henry McCleary	1910	Farmers' & Lumbermen's Bank	Grays Harbor	Elma Grays Hs
\$60,802	\$208,361	\$12,989	\$15,000	E. L. France	A. D. Devonshire	1907	srbor Bank of Elma	Grays Harbor	Elma Grays Hs
Oash and Due from Banks	Deposits	Surplus and Undivided Profits	Capital Stock	Cashier	President	Year Inc.	NAME OF BANK	County	Тоwп
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Directory of State Banke and Trust Companies Reporting November 17, 1916.—Continued,

Oash and Due from Banks	70,238	106,245	27,948 12,988	25,166	89,133 28,095	122,508		380,38
							<u> </u>	
Deposits	\$383,023 175,489	301,709	36,76 70,661	45,682	196,962	348,609 479,644	100,016	111,065
Surplus and Undivided Profits	\$14,508 5,616	65,091	659	645 10,827	17,154	25,267	15	1,484
Capital Stock	\$50,000	10,000	15,000	30,000	25,000	100,000	10,000	10,000
Ł	McCarthy	Crooks	Stage	Crothers	May S. Jones L. O. Crossland	Ноwе Dawdy	H. Inkster, Mgr L. Sinclair	uc
Cashier			Stage Stage	Orothe Jones.	S. Jon Oros		Inkat.	Thompson
	7ić Ae.			н 6	May 8 L. O.	证 既	G. H.	E.
President	R. A. Johnson	F 0 (	B. E. Chappell	J. H. Smith John E. Russell	H. B. Jones	W. W. Cooper	H. Freeborough	C. N. Buffman
Year Inc.	1914			1904	1908	1905	191	1900
NAME OF BANK	First State Bank	Goldendale State Bank	Oranite Falls State Bank	Hamilton State Bank	Hartline State Bank	Hillyard State Bank	Hunters Exchange Office.  Branch of Lincoin County State Bank, Davenport.) Southwestern Washington Bank	Ione State Bank
County	Whitman	Klickitat Yakima	Snohomish	Skagit Lincoln	Grant	Spokane Grays Harbor	Stevens	Pend Orellie
Тоwn	Garfield Whitman	Goldendale Klickitat Grandvlow Yakima	Granite Falls Snohomish	Harrington Skagit	Hartline Grant Hatton Adams	Hillyard Spokane Hoquiam Grays Harbor	Hunters Stevens Ilwaco	Ione Pend Orefile Ione State Bank

Directory of State Banks and Trust Companies Reporting November 17, 1916.—Continued.

Тоwn	County	NAME OF BANK	Year Inc.	President	Oasbier	Capital Stock	Surplus and Undivided Profits	Deposits	Cash and Due from Banks
Kalama	Cowlitz	Kalama State Bank	1916	O. C. Ruckles	G. N. Campbell	\$15,000	9613	\$73,896	159'63
Kelso	Cowlitz	Kelso State Bank	1803	F. M. Carothers	F. L. Stewart	25,000	23,387	244,538	71,025
Kennewick Benton	Benton	American Security Bank	1916	M. O. Klitten	Caroline Klitten	20,000	2,510	10,757	17,882
Kennewick	Benton	Bank of Kennewick	1906	Emery Omstead	M. W. Mattecheck	25,000	• 11,729	88,090	312
Kent	King	State Bank of Kent	1906	W. H. Overlock	Ohas. R. Otey	40,000	11,199	241,896	78,196
Kettle Falls Stevens	Stevens	Bank of Colville	_ :		J. M. Williams,				
Kirkland	King	(Branch of Bank of Colville, Colville.) Kirkland State Bank	1911	Herman C. Schultz	Glenn M. Johnson	10,000	1,188	75,808	22,961
Kittitas	Kittitas	Kittitas State Bank	1911	Geo. W. Snodgrass	H. W. Higman	10,000	1,585	62,575	20,963
Krupp Grant	Grant	Farmers Bank	1907	M. A. Wiley	B. F. Paff	10,000	5,981	122,073	17,281
La Center	LaCenter Clarke	LaCenter State Bank	1911	W. A. Mansfleld	C. A. Button	10,000	5,048	62,080	25,118
LaConner Skagit	Skagit	LaConner State Bank	1912	N. B. Hannay	W. S. Packard	25,000	14,670	221,638	128,410
La Crosse	Whitman	First State Bank	1911	P. B. Stravens	Ira M. Camp	000'00	23,788	458,248	66,887
LaCrosse	Whitman	Security State Bank	1914	F. L. Gordon	J. E. Moore	15,000	8,774	138,480	41,204
Lake Stevens	Lake Stevens Snobomish	The Bucker Bank	1914	B. J. Rucker	A. D. Campbell	10,000	1,788	66,104	30,515
Lamont	Whitman	Lamont State Bank	1908	E. A. Shields	B. J. Ellis	10,000	8,714	283,760	100,88
Langley	Island	Langley State Bank	1913	Н. Р. Jensen	James O. Langley	10,000	250	86,449	4,180
Latah Spokane	Spokane	Bank of Latah	1907	Wm. A. McEachern.	A. L. Faler	15,000	4,041	171,985	80,828
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Directory of State Banks and Trust Companies Reporting November 17, 1916.—Continued.

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Town	County	NAME OF BANK	Year Inc.	President	Onshier	a M	Surplus and Undivided Profits	Deposits	Cash and Due from Banks
Leavenworth Chelan	Ohelan	Leavenworth State Bank	1910	F. A. Sinclair	Robt. B. Ffeld	000'528	\$7,382	129,1824	\$43,068
Loomis Okanogan.	Okanogan	Okanogan State Bank			Arthur Lund	:			:
Lyle Klickitat	Klickitat	Atlemside.) State Bank of Lyle	191	C. F. Hendricksen	L. H. Lawson	12,500	1,080	136'99	11,075
Lyman Skagit	Skagit	Lyman State Bank	1912	G. A. Minkler	F. C. Fellows	10,000	8,187	61,690	10,645
Lynden	Whateom	Lynden State Bank	1907	P. M. Serrurber	W. B. VanderGriend	28,000	18,986	288,125	75,682
Mabton Xakima	Yakima	The Mabton Bank	18 18	A. T. Oarlson	Earle Larrison	25,000	4,647	183,895	74,882
Malden Whitman	Whitman	Farmers & Merchants Bank	1908	L. F. Robleder	R. E. Gullick	20,000	4,754	178,916	38,025
Mansfleld	Mansfield Douglas	Commercial State Bank	9161	Frank W. Owell	Е. А. Овтгоп	25,000	1,254	48,150	836,30
Mansfield	Mansfield Douglas	Mansfield State Bank	1906	A. L. Roger	L. H. Merftt	25,000	27,736	\$33,128	146,302
Marysville Snohomish	Snohomish	Marysville State Bank	1898	8. T. Smith	E. E. Colvin	25,000	6,346	183,217	81,940
Metaline Falls.	Metaline Falls. Pend Oreille	Metaline Falls State & Savings Bank.	1161	H. E. Neelnnofe	A. W. Dressel	10,000	699	58,286	20,602
Molson Okanogan.	Okanogan	Molson State Bank	1908	O. S. Barne	G. B. Avery	15,000	7,140	108,907	48,768
Montesano	Montesano Grays Harbor	Montesano State Bank	1807	A. D. Devonshire	W. H. France	90,000	61,090	568,741	141,365
Morton Lewis	Lewis	State Bank of Morton	1911	F. M. Broadbent	W. W. Могве	11,000	108 +	50,212	17,489
Mount Vernon. Skagit	Skagit	20	1911	Geo. D. McLean	Frank O. Pickering	26,000	8,625	115,614	896'03
Moxee Oity   Yakima	Yakima	Moxee State Bank	1914	L. H. Desmarais	J. E. McGrath	10,000	1,01	52,737	15,022

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Directory of State Banks and Trust Companies Reporting November 17, 1916.—Continued.

Точп	County	NAME OF BANK	Year Inc.	President	Gashler	Capital Stock	Surplus and Undivided Profits	Deposits	Cash and Due from Banks
Naches	Yakims	Naches State Bank	1910	W. Goodsell	J. R. Reynolds	\$10,000	<b>134</b>	782,79	280,023
Napavine Lewis	Lewis	Napavine State Bank	1918	James P. Weter	L. A. Daily	10,000	2	42,667	14,620
Newport Pend Orellie	Pend Orelle	Security State Bank	1908	J. T. Phillips	E. A. Anderson	35,000	10,115	279,510	61,957
North Bend King	King	State Bank of North Bend	1913	Wm. H. Taylor	Loy E. Carlin	000'0"	8	103,107	48,354
Northport Stevens	Stevens	Miners & Smelters Bank	1915	J. J. Day	J. B. Helpman	10,000	1,004	161,626	61,727
North Yakima. Yakima	Yakima	Central Bank & Trust Company	1910	D. L. Buren	W. F. Gritchell	000'09	3,328	145,564	38,637
North Yakima. Yakima	Yakima	Yakima Trust Company	1906	H. C. Lucas	E. P. Hoffman	100,000	22,880	648,217	277,891
North Yakima. Yakima	Yakıma	Yakima Valley Bank	1902	0. A. Fechter	Chas. Heath	100,000	20,361	894,577	417,188
Oakesdale	Whitman	Commercial State Bank	1861	E. H. Hanford	H. W. Hanford	25,000	12,231	617,680	144,712
Oak Harbor Island	Island	Oak Harbor State Bank	1906	Robt. Moody	J. M. Pratt	15,000	1,561	009'92	14,455
Oakville	Grays Harbor	Oakville Grays Harbor Oakville State Bank	1900	Wm. T. Perkins	O. C. Scates	10,000	208	54,061	18,041
Odessa Lincoln	Lincoln	Farmers & Merchants Bank	1915	L. G. Muelsen	Hy W. Rieke	28,000	2,669	181,446	57,591
Odessa Lincoln	Lincoln	Union State Bank	1911	G. W. Finney	C. T. Deets	40,000	29,841	909',499	123,906
Okanogan Okanogan	Okanogan	8 <u>e</u>			O. C. Richardson, Assistant Cashler.				
Omak Okanogan	Okanogan	Conuly.) Omak State Bank	1907	J. H. 94dey	John Scott	15,000	2,740	113,207	38,728
Orlent	<b>Реггу</b>	Orient State Bank	1910	Geo. P. Akerly	E. A. Akerly	10,000	797	36,381	9,738
Oroville Okanogan	Okanogan	Union Title & Trust Company 1910	1910	S. C. Mitchell	P. M. Snider, Sec'y.	40,000	5,328		10,848

Directory of State Banks and Trust Companies Reporting November 17, 1916.—Continued.

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Town	County	NAME OF BANK	Year Inc.	President	Oashier	Capital Stock	Surplus and Undivided Profits	Deposits	Cash and Due from Banks
Orting Pierce	Pierce	Orting State Bank	1913	W. J. Thompson	M. E. Callendar	\$10,000	88	190,1064	\$84,418
Othello Adams	Adams	Othello State Bank	1927	Wm. Sayder	J. P. Slemens	10,000	5,011	92,294	51,178
Outlook Yakima	Yakima	Outlook State Bank	1908	W. H. Norman	H. E. Schroeder	10,000	1,248	58,436	22,968
Palouse	Whitman	Security State Bank	380	J. K. McCornack	John P. Duke	000,000	19,046	496,517	146,225
Pasco Franklin	Franklin	Bank of Pasco	1808	J. B. Crain	E. W. Landt	30,000	6,005	187,128	41,450
Pateros	Okanogan	Methow Valley Bank	1911	Chas. T. Borg	O. A. Johnson	10,000	212	84,230	23,925
Pe Ell Lewis	Lewis	Pe Ell State Bank	1914	E. H. Lester	C. W. Boynton	10,000	987	28,517	16,708
Pine City	Whitman	Pine City State Bank	1914	A. J. Stone	W. O. Palmer	15,000	2,568	138,286	808, 73
Pomeroy Garffeld	Garffeld	Knettle State Bank	1914	N. D. Knettle	L. N. Knettle	30,000	20,156	963,088	184,788
Pomeroy Garfield	Garffeld	Pomeroy State Bank	1897	R. L. Rush	W. B. Morris	50,000	91,139	1,567,074	652,516
Port Angeles Clallam	Clallam	Bank of Clallam County	1895	H. E. Lutz	8. J. Lutz	25,000	9,596	457,258	170,388
Port Angeles	Port Angeles Clallam	Port Angeles Trust & Savings Bank	1914	E. J. Walton	Benj. N. Philips	25,000	188	164,977	29,681
Port Orchard Kitsap	Kitsap	Kitsap County Bank	1908	Thomas Ross	W. W. Boner	20,000	2,500	113,586	19,215
Port Townsend	Port Townsend Jefferson	Merchants Bank	1886	W. M. Ladd	N. C. Strong	75,000	27,590	647,666	214,545
Poulsbo	Kitsap	Liberty Bay Bank	1900	Wm. Thannum	L. T. Wirstad,	10,000	6,984	145,207	20,889
Prescott	Walla Walla	First State Bank	18 18	H. S. Fender	Acting Oashier. F. J. Fleischer	25,000	₹,682	169,506	67,249
Prosser	Benton	Oftizens State Bank	1906	C. H. Pearl	Guy H. Pearl	25,000	27,043	202,159	45,679
Prosser Benton	Benton	Prosser State Bank	1806		J. F. Sears	40,000	10,012	236,354	33,652

Directory of State Banks and Trust Companies Reporting November 17, 1916.—Continued.

Town	County	NAME OF BANK	Year Inc.	President	Oashler	Capital Stock	Surplus and Undivided Profits	Deposits	Cash and Due from Banks
Pullman Whitman	Whitman	Pullman State Bank	1802	B. O. McCroskey	J. N. Scott	\$37,500	\$18,678	\$611,668	\$160,721
Puyallup Pierce	Pierce	Offizens State Bank	1886	Geo. W. Edgerton	W. A. Miller	25,000	21,916	866,197	50,086
Puyallup Plerce	Plerce	Puyallup State Bank	1906	J. S. Alspaugh	J. M. Jones	28,000	9,767	927,610	88,856
Quiney Grant	Grant	Quincy Valley State Bank	1913	G. E. Sanderson	R. O. Wightman	10,000	4,230	110,568	88,888
Raymond Pacific	Pacific	Willapa Harbor State Bank	1906	H. W. MacPhail	E. E. Colkett	60,000	13,250	421,721	141,961
Reardan Lincoln	Lincoln	Farmers State Bank	1900	John Mahrt	E. G. Abrens	28,000	9,236	394,966	170,451
Redmond King	King	Redmond State Bank	1911	F. M. Roberts	O. A. Shinstrom	10,000	4,968	772,48	20,738
Renton	Renton King	Offizens Bank of Renton	1900	H. Evans	В. W. Gfiham	25,000	900'9	258,101	89,358
Republic	Republic Ferry	Ferry County State Bank	18	P. H. Walsh	Jos. L. Walsh	25,000	18,570	186,250	98,964
Richland	Richland Benton	Security State Bank	1914	W. R. Amon	A. L. Nelson	20,000	1,251	73,827	24,046
Ridgefield	Clarke	Ridgefield State Bank	1910	E. L. Thompson	J. E. Keith	10,000	2,440	58,340	23,738
Ritzville Adams	Адаше	German American State Bank	<u>8</u>	O. H. Clodius	J. F. Lansing	75,000	28,084	582,206	\$11,008
Riverside Okanogan.	Okanogan	Okanogan State Bank	1908	Hans Lund	Arthur Lund	25,000	16,190	178,812	98,970
Rockford Spokane	Spokane	Farmers & Merchants	1906	J. W. Lowe	W. L. Oliver	17,500	4,478	196,024	94,347
Rosalia	Whitman	Bank of Rosalia, Inc.	1886		E. W. Wagner	25,000	8,558	277,548	708,97
Boslyn Kittitas	Kittitas				G. Bing, Cashier				:
Roy Plarce	Pierce	(Branch of Cie Elum State Bank.) Roy State Bank	1908	Wm. T. Perkins	E. S. Emigh	10,000	6,919	80,226	81,749
Buff Grant	Grant	Buff State Bank	1911	M. A. Wiley	F. R. Amende	10,000	6,586	99,284	22,568

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Bank for Savings. Broadway State Bank
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Directory of State Banks and Trust Companies Reporting November 17, 1916.—Continued.

Тоwп	County	NAME OF BANK	Year Inc.	President	Cashier	Capital Stock	Surplus and Undivided Profits	Deposits	Cash and Due from Banks
Seattle	King	Oriental American Bank	1906	M. Furuya	н. назедама	\$40,000	\$1,514	186,302	<b>\$53</b> ,261
Seattle	King	Peoples Savings Bank	1880	E. C. Neufelder	Jos. T. Greenleaf	100,000	287,000	2,372,382	848,892
Seattle	King	Rainier Valley State Bank	1910	S. T. Toby	T. S. Toby	25,000	8,768	167,022	21,396
Seattle	King	Scandinavian American Bank	1892	A. Chilberg	J. F. Lane	500,000	520,284	520, 284 13, 705, 074	3,855,950
Seattle	King	Seaboard Bank	1916	Lee H. Wakefield	C. H. Howell	100,000	15,288	286,789	104,042
Seattle	King	Scattle Trust Company	1906	J. E. Chilberg	A. F. Balley,	250,000	79,908		41,743
Seattle	King	Specie Bank	1900	J. T. Kikutake	C. M. Uyeda	25,000	2,800	175,297	49,048
Seattle	King	State Bank of Seattle	1906	E. L. Grondahl	Hugo Carlson	100,000	90,820	1,738,974	305,982
Seattle	King	Title Trust Company	1901	J. W. Maxwell	Charlton L. Hall,	250,000	56,065		1,221
Seattle	King	Union Savings & Trust Company	1908	James D. Hoge	Rollin Sanford	000'000	194,062	4,061,312	1,298,997
Seattle	Klng	Union Trust Company	1892	Watson O. Squire		200,000	82,487	:	:
Seattle	Klng	United States Trust Company	1909	Samuel Hill	J. C. Potter, Treas.	200,000	1,000,000		-
Seattle	King	University State Bank	1906	Geo. W. Lear	Harry B. Lear	20,000	10,888	081,458	165,679
Seattle King	King	West Scattle State Bank	1913	W. T. Campbell	J. B. Oampbell	10,700	909	90,064	11,980
Sedro Woolley. Skagit	Skagit	C. E. Bingham & Oo	1912	C. E. Bingham	Q. P. Reno	50,000	16,878	489,185	161,624
Selah Yakima	Yakima	Selah State Bank	1910	O. S. Sundberg	Elmer Dahlin	15,000	6,186	115,325	44,986
Sequim   Clallam	Olaliam	State Bank of Sequim	1910	H. J. Bugge	R. W. Schumacher	10,000	2,720	198,961	27,406
Shelton Mason	Mason	State Bank of Shelton	1808	M. E. Reed	O. I. Pritchard	25,000	27,678	888,688	109,880

	9210	Directory of State Banks and Trust	Com	Companies Reporting	November 17, 1916. Continue	16	Tunuli			
Town	County	OF BANK	Year Inc.	Prosident	Onabler	Capital Stock	Surplus and Undivided Profits	Deposits	Ouch and Due from Banks	
ohomish	nohomish Snohomish	Commercial Bank of Snohomish County 1908	1908	Herman Friese	Alex. Livingston	\$25,000	\$23,828	\$162,802	\$31,285	
outh Bend Pacific	Pacific	Pacific State Bank	1906	Jos. G. Heim	L. W. Homan	100,000	107'65	787, 130	255,406	
angle	pangle Spokane	State Bank of Spangle	1906	John Peters	O. W. Newlon	15,000	5,049	218,560	08,040	
okane	pokane Spokane	Bank of Montreal	1908	W. Dick, Mgr		100,000	15,864	1,688,061	1,660,661	
okane	pokane Spokane	Olark Bros. & Klein Trust Company	1901	A. C. Klein	J. Heaton, Sec'y	15,000		_	20,645	
okane	pokane Spokane	Farmers & Mechanics Bank	1904	Ortho Dorman	B. C. Yancey	000'09	8,912	252,171	59,116	
pokane Spokane	Spokane	Lincoln Trust Company	1916	М. Е. Нау	E. T. Hay, Sec'y	100,000	37,470		14,086	
pokane Spokane	Spokane	Scandinavian American Bank	1908	O. A. Johnson	О. Larson	100,000	51,825	862,530	186,992	
okane	pokane Spokane	Security State Bank	1906	G. W. Stocker	E. W. Edgington	25,000	5,608	230,816	119,161	
pokane Spokane	Spokane	Spokane & Eastern Trust Company	1890	R. L. Butter	W. T. Triplett,	1,000,000	399,665	11,601,617	4,084,807	
pokane Spokane	Spokane	Spokane State Bank	1907	J. A. Anderson	O. W. Tupper	20,000	11,973	260,092	75,335	
okane	pokane Spokane	Union Park Bank	1806	H. M. Strathern	E. R. Anderson	25,000	998'9	169,550	88,502	
pokane Spokane	Spokane	Union Trust & Savings Bank	1907	D. W. Twohy	A. S. Blum	200,000	208,802	1,188,965	149,582	
pokane Spokane	Spokane	Wall Street Bank	1806	Gust Pearson	G. Pearson	28,000	* 1,239	57,467	19,828	
okane	pokane Spokane	Washington Safe Deposit & Trust Co., 1901	1801	W. S. McCrea	W. G. Merryweather,	100,000	149,724		746	
pokane Spokane	Spokane	Washington Trust Company	1902	M. B. Connelly	Ira W. Bedle	200,000	54,014	823,278	227,675	
prague Lincoln	Lincoln	Bank of Sprague	1901	A. L. Smalley	Ralph R. Jones	30,000	28,885	830,560	284,708	
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Directory of State Banks and Trust Companies Reporting November 17, 1916.—Continued.

Town	Oounty	NAME OF BANK	Year Inc.	President	Onshier	Capital Stock	Surplus and Undivided Profits	Deposits	Cash and Due from Banks
Sprague Lincoln	Lincoln	Farmers State Bank	1915	н. D. Mille	August Witt	985,000	\$135	\$118,280	\$58,448
Springdale Stevens	Stevens	Farmers & Merchants Bank	1906	C. W. Winter	Chas. O. Snapp	10,000	8,481	73,586	16,148
Stanwood   Snohomish.	Snohomish	Bank of Stanwood	180	W. C. Brokaw		25,000	12,281	\$19,349	100,858
Starbuck Columbia	Columbia	Bank of Starbuck	1906	W. E. Sprout	M. C. Zintheo	25,000	9,882	776,18	24,806
Steptoe Whitman	Whitman	Steptoe State Bank	1911	Lewis Stairet	M. O. Handley	20,000	3,004	50,200	18,587
Stevenson	Skamania	Bank of Stevenson	1907	E. P. Ash	Geo. F. Christensen.	10,000	7,681	106,807	25,098
St. John	Whitman	Farmers State Bank	1914	W. S. Imbler	H. F. Imbler	20,000	1,846	153,621	78,824
St. John	Whitman	St. John State Bank	190	H. O. Fisher	Harry Terhune	25,000	9,401	416,889	120,737
Sultan	Snohomish	Offizens Bank of Sultan	1910	G. G. Startup	W. M. Jenkins	10,000	1,428	896'968	18,187
Sumas	Whatcom	Garrison Bros. State Bank	1910	L. A. Garrison	F. S. Garrison	40,000	9,546	165,800	75,874
Sumner Pierce	Pierce	Farmers State Bank	1916	C. M. Oase	R. P. Finney	25,000	• 1,879	183,134	15,380
Sunnyside Yakima	Yakima	The Sunnyside Bank	1902	R. G. Page	Horace L. Miller	20,000	12,527	266,247	108,800
Tacoma	Pierce	Bankers Trust Company	180	M. W. Peterson	M. M. Ogden	900,008	* 8,441	502,925	41,846
Tacoma Plerce	Pierce	Fidelity Trust Company	1880	Jno. S. Baker	E. V. Alward	200,000	518,165	4,834,602	1,014,008
Tacoma	Plerce	North Pacific Bank	1906	E. S. Prentice	P. Wallerich	25,000	11,729	216,464	46,568
Tacoma Pierce	Pierce	Puget Sound Bank & Trust Company.	1800	H. N. Tinker	W. W. Newschwander	100,000	67,507	777.177	220,564
Tacoma Plerce	Plerce	Scandinavian American Bank	1907	J. E. Chilberg	E. O. Johnson	000,002	21,236	2,618,601	880,830

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Banks and Trust Companies Reporting
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	Cash and Due from Banks	\$104,194	102,983	88,988	9,435	97,068	15,506	24,414	88,823	198,277	15,256	42,725	150,418	28,964	9,877	87,469	17,124	145,255
	P D O O O O			£	46,191		80,198	990,098	184,288		46,258			64,463	10,252		80,884	
	Deposits	\$1,077,440	260,822	351,770		200,457	 	 	<u>ğ</u>	333,486	<b>.</b>	126,881	300,742	<b>ક</b>	ę,	270,584	8.	811,781
tínued.	Surplus and Undivided Profits	<b>\$40,204</b>	11,014	20,195	874	8,160	1,764	2,838	4,887	9,847	98	12,967	5,980	862,2	* 152	7,862	2,814	27,501
16.—Cor	Capital Stock	000'002	22,000	30,000	10,000	15,000	10,000	10,000	50,000	28,000	15,000	35,000	10,000	10,000	10,000	20,000	10,000	20,000
November 17, 1916.—Continued.	Oashier	A. A. Miller	R. S. Kalbfleisch	O. D. McKeehan	L. H. Hubbard	Ralph Comegys			H. B. Miller	W. S. Doran	O. L. Renn	Geo. W. Sprouse	O. W. Bean	A. N. Obeney	C. H. Tart	O. F. Zumsteg	T. Hansen	H. P. Petersen
<u>.</u>	President	Obester Thorne	A. B. Willard	D. W. Truax	S. M. Peterson	H. W. Hanford	B. W. Bell	E. B. Cowles	H. M. Gilbert	J. D. Cornett	н. н. напвоп	Wm. G. Hughes	8. Hilliard	R. H. Campbell	C. P. Thomas	Lloyd DuBols	L. W. Lewis	M. Zuger, Sr
	Year Inc.	1918	8	1902	1914	1914	1900	1911	1910	1908	1914	1900	1908	1911	1916	1912	1906	<u>\$</u>
	NAME OF BANK	Tacoma Savings Bank & Trust Co	Oftizens State Bank	Tekoa State Bank	Oftizens Bank	Comegys, Hanford & Miller Bank	Toledo State Bank	Tolt State Bank	Central Bank of Toppenish	Traders Bank	Touchet State Bank	Commercial Bank	Farmers State Bank	Little Falls State Bank	Community State Bank	Washington Exchange Bank	Vashon State Bank	Exchange Bank
	Oounty	Pieroe	Whitman	Whitman	Thurston	Whitman	Lewis	King	Yakima	Yakima	Walla Walla	Okanogan	Whitman	Vader Lewis	Spokane	Clarke	Vashon King	Walla Walla
	Тота	Tacoma Pierce	Tekoa	Tekoa	Tenino Thurston	Thornton	Toledo Lewis	Tolt King	Toppenish Xakima	Toppenish Yakima	Touchet Walls Walls	Twisp Okanogan	Uniontown Whitman	Vader	Valleyford Spokane	Vancouver	Vashon	Waitsburg Walla Walla

Directory of State Banks and Trust Companies Reporting November 17, 1916.—Continued.

Точп	County	NAME OF BANK	Year Inc.	President	Cashier	Capital Stock	Surplus and Undivided Profits	Deposits	Oash and Due from Banks
Walla Walla	Walla Walla Walla Walla	Farmers Savings Bank	1886	W. P. Winans	J. Chitwood	000'00@	966,560	\$1,185,718	\$488,419
Walla Walla	Walla Walla	Peoples State Bank	11611	H. H. Marshall	W. H. Tharp	80,000	45,426	971,196	271,043
Walla Walla   Walla Wal	IB	Walla Walla Safety Deposit & Trust	1800	W. P. Lathrop	T. A. Paul, Sec'y	4,000	:	-	:
Warden Grant		Company. Warden State Bank	1908	Chas. Lundenberg	I. H. Mullowney	10,000	5,828	67,156	18,328
Washougal Clarke	Clarke	Clarke County Bank	1907	O. M. Keep	Thos. S. Keep	15,000	1,664	115,114	42,882
Waterville Douglas	Douglas	Douglas County Bank	76 180	M. E. Lies	C. S. Valentine	90,000	31,575	196'979	246,848
Waterville Douglas	Douglas	Waterville Savings Bank	7061	C. T. Hansen	T. Hansen Geo. P. Wiley	50,000	30,206	\$15,494	57,300
Waverly Spokane	Spokane	Waverly Exchange Bank	1908	F. Kienbaum	Ralph W. Darknell	10,000	2,668	156,408	878,78
Wenatchee Chelan	Chelan	Columbia Valley Bank	<b>78</b>	Guy C. Browne	Chas. E. Owens	100,000	28,545	988,429	860,514
Wenatchee	Wenatchee Chelan	Commercial Bank & Trust Company	1905	Frank W. Shultz	David Holmberg	20,000	8,808	492,317	194,072
Wheeler Grant	Grant	Wheeler State Bank	1914	E. C. Davis	J. E. Bassett	10,000	1,769	68,214	19,207
White Bluffs Benton	Benton	First Bank of White Bluffs	1800	L. E. Johnson	W. J. Kincaid	10,000	2,122	68,748	24,494
White Salmon.	White Salmon. Klickitat	Columbia State Bank	1916	G. A. Read	A. C. Keefhaver	25,000	1,091	180,439	201,102
White Swan Yakima	Yakima	White Swan Bank	1916	Alexander Mackel	C. E. Reinig	6,000	• 711	6,918	10,252
Wilbur Lincoln	Lincoln	State Bank of Wilbur	1912	E. L. Farnsworth	Chas. Hudkins	25,000	13,854	686,549	180,400
Wilkeson Pierce	Pierce	First Bank of Wilkeson	1908	W. H. Pringle	T. J. Anderson	15,000	8,252	181,361	26,145

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Directory of State Banks and Trust Companies Reporting November 17, 1916.—Continued.

Тоwа	Oounty	NAME OF BANK	Year Inc.	President	Cashler	Oapital Stock	Surplus and Undivided Profits	Oash and Deposits Due from Banks	Oash and Due from Banks
Wilson Oreek	Wilson Oreek Grant	Wilson Oreek State Bank	1918	Donald Urquhart	Donald Urquhart T. Claud Bennett	\$15,000	88,880	\$100,028	\$29,50.T
Winlock	Winlock Lewis	State Bank of Winlock 1910	1910		H. A. Baldwin Frank R. Neas	15,000	8,548	106,862	23,500
Winona Whitman	Whitman	Bank of Winona	1807	W. C. Morrow Louis Ellert	Louis Ellert	15,000	6,217	138,950	73,566
Winthrop	Winthrop Okanogan	Farmers State Bank	1915	Wm. G. Hughes O. B. Jaynes	O. B. Jaynes	10,000	• 158	86,188	11,841
Withrow	Withrow Douglas	Withrow State Bank	1918	F. E. Weston L. A. Weston	L. A. Weston	15,000	10,020	240,802	82,490
Woodland	Woodland   Cowlitz	Woodland State Bank 1907	1901		L. N. Plamondon Geo. E. Cochrane	25,000	8,458	901,38	19,969
Yacolt   Clarke	Otarke	First State Bank 0. Jorgen Olson	1910	C. F. Hendricksen	O. Jorgen Olson	10,000	2,042	69,910	26,783

* Expense.

DIRECTORY OF NATIONAL BANKS.

FROM REPORT OF COMPTROLLER OF THE CURRENCY OF NATIONAL BANKS REPORTING UNDER DATE OF SEPTEMBER 12, 1996.

Town	County	NAME OF BANK	President	Cashier	Capital Stock	Surplus and Undivided Profits	Time and Demand Deposits	Due to Banks and Other Liabilities	Due from Banks, Cash and Exch'nge
Auburn King	King	First National Bank	C. M. Hall	W. T. Behne	960,000	\$11,968	\$384,870		\$104,656
Bellingham Whatcom	Whatcom	Bellingham National Bank	V. A. Roeder	F. F. Handschy	200,000	306,452	1,741,291	20,711	730,362
Bellingham Whatcom	Whatcom	First National Bank	E. W. Purdy	John Kallsen	200,000	174,961	2,067,085	\$64,608	775,304
Bellingham Whatcom	Whatcom	Northwestern National Bank	H. B. Palge	O. K. McMillen	100,000	16,804	744,297	13,506	252,804
Bremerton Kitsap	Kitsap	First National Bank	C. E. Thomas	O. B. West	20,000	128	356,276	2001	66,119
Brewster	Brewster Okanogan	First National Bank	Amos Topper	Fred D. Rice	25,000	1,388	96,496	10,000	17,478
Burlington Skagit	Skagit	Burlington National Bank	H. E. Cleveland	Ohas. Callahan	25,000	88	110,88		14,619
Burlington Skagit	Skagit	First National Bank	J. H. Knutzen	E. L. Wilson	22,000	2,806	69,242		21,668
Camas Clarke	Clarke	First National Bank	O. F. Johnson	F. M. Hayungs	25,000	9,068	272,804		88,286
Chehalls Lewis	Lewis	Chehalis National Bank	D. W. Noble	A. S. Oory	80,000	10,881	307,391	120'6	100,000
Cheney Spokane	Spokane	National Bank of Cheney	F. M. Martin	N. A. Rolfe	25,000	4,396	173,173	10	99,790
Cheney Spokane	Spokane	Security National Bank	W. J. Sutton	R. H. Macartney	22,000	12,804	881,248	388	70,468
Chewelah Stevens	Stevens	First National Bank	O. W. Winter	F. L. Befnochl	86,000	026'6	196,214		24,892
Clarkston Asotin	Asotin	First National Bank	C. F. Waterman	W. A. Waterman.	25,000	7,018	210,486		58,280
Cle Elum Kittitas	Kittitas	First National Bank	W. H. Pringle	J. C. Beeson	25,000	8,608	150,423		28,618
Colfax Whitman	Whitman	Colfax National Bank	O. L. MacKenzie	Dolph Coolidge	200,000	40,000	1,126,171	299,246	385,165

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Directory of National Banks—Continued.

Due from Banks, Cash and Exchinge	988 · 938	184,763	47,464	682,880	659,125	28,394	01,670	708,586	173,849	60,214	\$12,00	92,366	156,879	76,580	129,974	112,600	66,960	119,306
Due to Banks and Other Liabilities	88	198,851	2,980	74,758	61,744	:		<b>38</b> ,094	:	18,685	18,685	7,278		8,150	57,201	2,017	8,511	17,252
Time and Demand Deposits	\$127,041	646,880	268,982	2,158,776	1,874,861	120,088	172,223	1,646,899	576,175	201,886	201,886	272,508	866,298	480,898	517,867	841,484	411,401	182,781
Surplus and Undivided Profits	190'9\$	89,364	7,190	100,068	252,777	4,566	8,246	178,040	\$23,08	5,800	2,800	17,816	9,168	23, 121	28,945	18,025	190,22	50,528
Capital Stock	000'92	20,000	20,000	100,000	20,000	25,000	25,000	100,000	90,000	20,000	80,000	20,000	25,000	80,000	75,000	900,000	75,000	75,000
Onshier	L. Geissier	Hannaford	Davis	Donovan	Bartholet	Weston Martin.	J. Kerr	Foster	Kenney	Herman	C. Jewett	Cooper	Ohristensen	Hopkins	Forrest	Davidson	Haupt	Martin
	<b>.</b>	<b>5</b>	R. L.	C. Re	F. Ba	J. We	Наггу	₩. J.	P. M.	Monroe	Geo.	T. J.	J. O.	H. D.	Ω	E. A.	F. H.	W. H.
President	F. L. Carr	N. J. Moldstad	O. Gunderson	W. L. Steinweg	George Donald	F. A. Davis	C. E. Hansen	O. J. Lord	P. M. Troy	A. P. Murray	R. C. McCroskey	Robert Jahnke	G. M. Lauridsen	N. H. Latimer	M. W. Whitlow	H. G. Burns	F. E. Robbins	O. H. Greene
NAME OF BANK	Montesano National Bank	First National Bank	Mt. Vernon National Bank	First National Bank	Yakima National Bank	National Bank of Oakesdale	First National Bank	Ospital National Bank	Olympia National Bank	First National Bank	National Bank of Palouse	First National Bank	Ottizen's National Bank	First National Bank	First National Bank	Reardan National Bank	First National Bank	Ploneer National Bank
County	Montesano Grays Harbor	Skagit	Skagit	North Yakima. Yakima	North Yakima. Yakima	Whitman	Okanogan	Thurston	Thurston	Okanogan	Whitman	Franklin	Clallam	Jefferson	Whitman	Lincoln	Адатв	Adams
Town	Montesano	Mt. Vernon Skagit	Mt. Vernon Skagit	North Yakima.	North Yakima.	Oakesdale	Okanogan Okanogan	Olympia Thurston	Olympia Thurston	Oroville Okanogan	Palouse Whitman	Pasco Franklin	Port Angeles Clallam	Port Townsend Jefferson	Puliman Whitman	Reardan Lincoln	Ritzville Adams	Ritzville Adams

Directory of National Banks-Continued.

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Тоwп	Oounty	NAME OF BANK	President	Omhier	Capital Stock	Surplus and Undivided Profits	Time and Demand Deposits	Due to Banks and Other Liabilities	Due from Banks, Oash and Exchinge
Rosalia Whitman	Whitman	Whitman County National Bank	W. E. Dwyer	F. J. Wilmer	840,000	\$12,240	\$484,020	\$0,945	\$206,841
Seattle King	King	Dexter-Horton National Bank	N. H. Latimer	C. E. Burnside	1,200,000	299,288	0,829,570	2,986,378	8,987,618
Seattle	Klng	First National Bank	M. A. Arnold	O. A. Philbrick	900,000	126,18	5,148,544	1,802,547	2,365,185
Seattle	Klog	National Bank of Commerce	M. F. Backus	Stockton Venzey	1,000,000	1,135,896	9,700,008	2,750,544	5,151,628
Seattle	King	National City Bank	J. W. Maxwell	М. Н. ВеП	900,000	171,044	2,758,767	810,999	1,060,138
Seattle King	King	Seattle National Bank	F. K. Struve	W. S. Peachy	1,000,000	811,125	811,125 12,541,742	4,112,849	6,246,417
Sedro Woolley. Skagit	Skagit	First National Bank	J. C. Wixsen	J. Guddall	25,000	6,791	248,845		81,561
Snohomish Snohomish	Snobomish	First National Bank	Н. С. Сошедув	W. M. Snyder	20,000	909,508	613,787	878	189,757
Spokane	Spokane	Exchange National Bank	E. T. Coman	C. E. McBroom	1,000,000	967,658	5,813,077	1,789,985	2,756,221
Spokane Spokane	Spokane	Fidelity National Bank	T. H. Brewer	J. J. Bouse	250,000	54,647	2,065,861	706,106	806,458
Spokane	Spokane	Old National Bank	D. W. Twohy	J. A. Yeomans	1,000,000	540,975	11,598,485	2,494,239	4,584,076
Sunnyside	Yakima	First National Bank	O. K. Strizek	Н. А. Воове	20,000	5,478	184,622	:	36,586
Тасоша	Tacoma Pierce	National Bank of Tacoma	Ralph S. Stacy	Stephen Appleby	1,000,000	226,732	7,894,089	1,263,350	8,064,570
Tonasket	Tonasket Okanogan	First National Bank	Hans Lund	A. Lund	25,000	8,850	100,226		25,434
Toppenish	Yakima	First National Bank	F. A. Williams	L. J. Goodrich	25,000	11,12	164,877		47,870
Vancouver	Vancouver Clarke	U. S. National Bank	J. M. Langradorf	J. S. G. Langsdorf	100,000	38,461	476,749	7,171	161,308
Vancouver	Vancouver Clarke	Vancouver National Bank	G. H. Adams	J. M. Denny	100,000	28,318	684,414	18,078	158,928
Waitsburg	Walls Walls	Waitsburg   Walla Walla   First National Bank	J. W. Morgan	W. G. Shuham	900'09	72,411	644,883	1,384	141,171
			•						

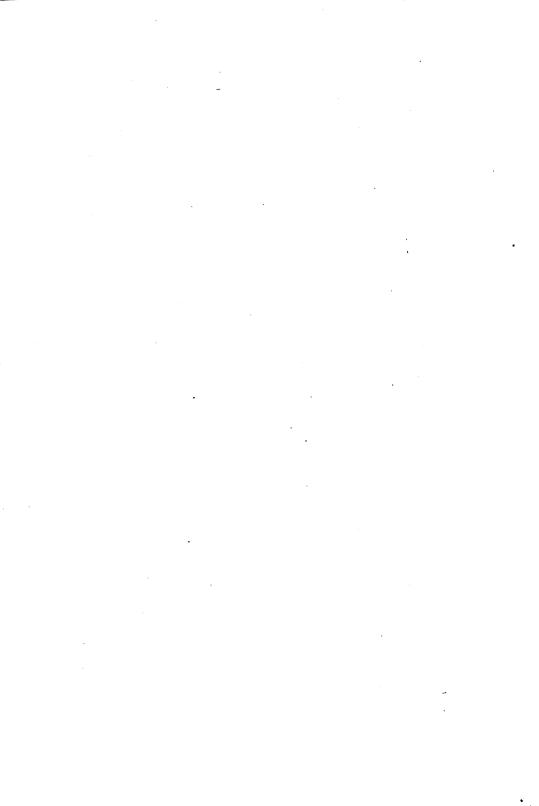
Directory of National Banks-Continued.

Due to Due from anks and Banks, Other Cash and labilities Exchinge	\$804,387	557,065	272,727	110,199	57,991	198'361	27,475
~	\$156,280	150,048	14,496		80,968	18,551	
Time and Demand Deposits	\$236,825 \$ti,807,094	829,494 1,381,578	725,806	250,044	189,742	421,745	126,364
Surplus and Undivided Profits		167'638	25,217	6,580	10,200	5,538	10,181
Capital Stock	\$100,000	200,000	100,000	25,000	20,000	20,000	25,000
Cashler	H. H. Turner	P. M. Winans	Geo. E. Kellough Fred W. Wilson	L. W. Taylor	Wm. A. Pearos	L. L. Mathews	L. H. Kubn
President	Miles C. Moore	Levi Ankeny	Geo. E. Kellough	Alex E. McCredy	W. B. Cunning-	J. K. McCornack.	J. D. Cornett
NAME OF BANK	Baker-Boyer National Bank Miles C. Moore H. H. Turner	First National Bank Levi Ankeny P. M. Winans	Third National Bank	First National Bank Alex E. McOredy., L. W. Taylor		First National Bank J. K. McCornack. L. L. Mathews	First National Bank J. D. Cornett L. H. Kuhn
County	Walla Walla	Walla Walla	Walla Walla	Wapato Yakima	Washtuena Adams	Wenatchee Ohelan	Yakima
Town	Walla Walla   Walla Wall	Walla Walla   Walla Wall	Walla Walla   Walla Wal	Wapato	Washtucna	Wenatchee	Zillah Yakima

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#### ANNUAL STATEMENTS

OF THE

# **Building, Loan and Savings**Associations

**AUTHORIZED TO DO BUSINESS** 

IN THE

STATE OF WASHINGTON

1915-1916

Issued by
C. W. CLAUSEN
STATE AUDITOR

PROCEEDINGS OF

**BIGHTH ANNUAL CONVENTION** 

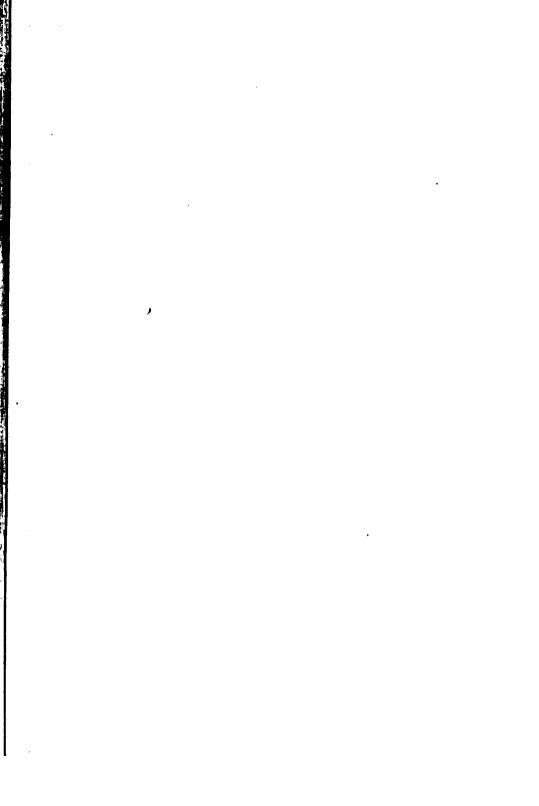
OF

**ASSOCIATIONS** 

OLYMPIA, WASH.

FRANK M. LAMBORN PUBLIC PRINTER

1917



### BUILDING, LQAN AND SAVINGS ASSOCIATIONS

AUTHORIZED TO DO BUSINESS IN THE STATE OF WASHINGTON FOR THE YEAR ENDING AUGUST 31, 1916.

#### STATE ASSOCIATIONS.

ABERDEEN SAVINGS AND LOAN ASSOCIATION, of Aberdeen, Washington.

AMERICAN SAVINGS AND LOAN ASSOCIATION, of Everett, Washington.

CASCADE SAVINGS AND LOAN ASSOCIATION, of Everett, Washington.

CITIZENS SAVINGS AND LOAN SOCIETY, of Spokane, Washington.

EQUITABLE BUILDING, LOAN AND INVESTMENT ASSOCIATION, of Seattle, Washington.

FIDELITY SAVINGS AND LOAN ASSOCIATION, of Spokane, Washington. GERMAN SAVINGS, BUILDING AND LOAN ASSOCIATION, of Seattle, Washington.

THE HOME SAVINGS AND LOAN ASSOCIATION, of Seattle, Washington.

INDUSTRIAL BUILDING AND LOAN ASSOCIATION, of South Bellingham,
Washington.

INLAND EMPIRE BUILDING AND LOAN ASSOCIATION, of Walla Walla, Washington.

INTER-STATE BUILDING, LOAN AND TRUST ASSOCIATION, of Walla Walla, Washington.

KITSAP COUNTY SAVINGS AND LOAN ASSOCIATION, of Bremerton, Washington.

MODERN SAVINGS AND LOAN ASSOCIATION, of Tacoma. Washington.
MUTUAL SAVINGS AND LOAN ASSOCIATION, of Seattle, Washington.
NEW WHATCOM BUILDING AND LOAN ASSOCIATION, of Bellingham,
Washington.

NORTHWESTERN BUILDING AND LOAN ASSOCIATION, of Tacoma, Washington.

OLYMPIA BUILDING AND LOAN ASSOCIATION, of Olympia, Washington.

PACIFIC BUILDING AND LOAN ASSOCIATION, of Tacoma, Washington.

PRUDENTIAL SAVINGS AND LOAN ASSOCIATION, of Seattle, Washington.

PUGET SOUND SAVINGS AND LOAN ASSOCIATION, of Seattle, Washington.

PULLMAN SAVINGS AND LOAN ASSOCIATION, of Pullman, Washington.
SAVINGS AND LOAN ASSOCIATION, of Bellingham, Washington.

SCANDINAVIAN AMERICAN SAVINGS AND LOAN ASSOCIATION, of Everett. Washington.

SEATTLE SAVINGS AND LOAN ASSOCIATION, of Seattle, Washington.

SECURITY SAVINGS AND LOAN SOCIETY, of Aberdeen, Washington.

SKAGIT COUNTY SAVINGS AND LOAN ASSOCIATION, of Anacortes,

Washington.

SPOKANE SAVINGS AND LOAN ASSOCIATION, of Spokane, Washington. STATE BUILDING AND LOAN ASSOCIATION, of Tacoma, Washington. TACOMA SAVINGS AND LOAN ASSOCIATION, of Tacoma, Washington. UNITED STATES SAVINGS AND LOAN SOCIETY, of Tacoma, Washington. WASHINGTON SAVINGS AND LOAN ASSOCIATION, of Seattle, Wash-

WEST COAST SAVINGS AND LOAN ASSOCIATION, of Centralia, Washington.

THE YAKIMA SAVINGS AND LOAN ASSOCIATION, of North Yakima. Washington.

#### FOREIGN ASSOCIATIONS.

EQUITABLE SAVINGS AND LOAN ASSOCIATION, of Portland, Oregon.
PACIFIC STATES SAVINGS AND LOAN COMPANY, of San Francisco,
California.

WESTERN LOAN AND BUILDING COMPANY, of Salt Lake, Utah.

#### SAVINGS AND LOAN ASSOCIATIONS.

During the past two years nine new associations have entered the field and a better understanding by the public as to the operation of the law has led to more confidence and consequently a large increase in the number of members and the amount of their subscriptions.

The following figures reflect the growth of the business during the past two years:

Number of	domestic	association	s, June	30, 1	914	21
Number of	domestic	association	s, June	30, 1	916	33
Number of	members	, June 30, 1	1914			16,420
Number of	members	, June 30, 1	L <b>916</b> .			39,520

Assets of domestic associations, June 30, 1914... \$7,877,467 14 Assets of domestic associations, June 30, 1916... 12,077,727 54

The aggregate amount invested in real estate mortgages by the domestic associations follows:

June	30,	1913	\$7,040,529	42
June	30,	1916	10,056,043	76

The foregoing figures do not include the foreign associations whose real estate mortgages in this state amount to almost \$2,000,000.

Very few foreclosures have been made and the real estate held by the associations outside of office buildings is very small.

The loaning rate has decreased to meet the competition of other investors and the prevailing sentiment amongst the associations is to loan their money at the lowest rate possible to enable them to pay a fair return to their members.

Most of the associations do not require the carrying of stock in connection with loans, and do not charge commission on loans.

Some of the associations charge membership fee ranging from 25 cents to \$2 per share, some place the proceeds in their expense fund and others pay it to agents.

I would respectfully recommend:

First. That all agents be licensed to do business in the State of Washington, an annual fee of \$5 be charged for said license and power given the State Auditor to cancel such licenses for violation of the law, or misrepresentations.

Second. That all membership fees pass through the books of the association charging same, and that said membership fees shall not

exceed \$1 per share and the total fee charged any member shall not exceed \$10 and a separate receipt shall be issued for same.

Third. That it shall be unlawful for officers or directors to borrow from the association of which they are such officers or directors or to be interested in real estate on which the association has a mortgage or become owner either directly or indirectly in any real estate upon which the association has a mortgage except with the written consent of three-fourths of the directors.

Fourth. That any person or persons who shall wilfully or knowingly subscribe to or make or cause to be made any false statement or false entry or omit making proper entries in the books of any savings and loan or building and loan association or society, operating under the law of the State of Washington, or shall knowingly subscribe to or exhibit false or fictitious papers, or securities with the intent to deceive any person or persons authorized to examine into the affairs of said association or society, or shall publish any false statement of the amount of the assets or liabilities of any such association or society, shall be deemed guilty of a felony and upon conviction thereof shall be imprisoned in the state penitentiary not less than one year or more than ten years.

Fifth. That section 20, chapter 110, Laws 1913, be amended so as to leave it discretionary with the State Auditor whether or not the twenty days' notice should be given in case of insolvency or unsoundness.

### ANNUAL STATEMENTS AT CLOSE OF BUSINESS, JUNE 30, 1916.

Aberdeen Savings and Loan Association, of Aberdeen, Wa	ashingtor	۱.
EUGENE FRANCE, President. W. W. HART,	Secretary	7.
Amount of authorized capital	<b>\$2</b> .000.000	00
Par value of each share of stock at date of this report		
Number of shares sold during the year		9
Number of shares cancelled and withdrawn during the year		27
Number of shares in force at close of year		323
RECEIPTS		
Cash on hand and in bank July 1, 1915	\$8,013	35
Interest	2,609	_
Installment stock	53	00
Loans	10,914	50
Pald-up stock	900	00
Total receipts	\$22,490	80
DISBURSEMENTS .		
Dividends	\$2,621	40
Expense	538	
Installment stock	1,291	
Loans	11,880	00
Commission	9	00
Pald-up stock	2,700	
T. S. O'Hara (taxes)		53
Real estate (Fidelia Rutherford)	158 3,266	_
Total disbursements	\$22,490	80
ASSETS		
Fixtures	\$29	85
Loans	31,844	
Hayes & Hayes Bankers	2,900	
Cash	366	
Real estate	554	53
J. S. Creech		90
Inventory, delinquent interest	971	
Total assets	\$36,702	84
LIABILITIES		•
Installment stock	\$2,519	-
Contingent emergency fund	808	
A BIG-Up Stock	32,300	-00
Total liabilities	\$36,702	84

American Savings and Loan Association, of Everet	t, Washington.
H. E. HENDRIX, President. J. A. WILI	BURN, Secretary.
Amount of authorized capital	\$2,000,000 00
Par value of each share of stock at date of this report	\$100 00
Number of shares sold during the year	
Number of shares cancelled and withdrawn during the year	
Number of shares in force at close of year	3,038
RECEIPTS	
Installment stock	\$525 00
Savings stock	4,363 72
Paid-up stock	11.760 00
Juvenile stock	119 05
membership fee	3,736 70
rayments on real estate loans	66 01
Payments on stock loans	64 80
Interest	60 73
Total receipts	\$20,696 01
DISBURSEMENTS	
Loans on real estate	\$10,699 68
TAMES ON STOCK	84 80
Cash On hand and in banks	3,569 83
Total disbursements	\$20,696 01
ASSETS	
Cash On hand and due from banks	\$3,569 83
Real estate loans. Notes Persirable	10,633 67
Purps receivable	2,300 00
Furniture and fixtures.	376 75
Total assets	
LIABILITIES	
Liabilities to stockholders	\$16,685 77
Membership fee Undivided profits	\$10,085 77
adivided profits	60 73
Total liabilities	\$16,880 25
Cascade Savings and Loan Association, of Everett,	. Washington.
D WILD Ducations	DELL Granden
	,
Par value of authorized capital	\$100 00
MODE	4100 00
"Chok	
Number of shares cancelled and withdrawn during the year	1,005

RECEIPTS		
Dues	\$845	Of
2408	Ψ010	•
DISBURSEMENTS		
None.		
ASSETS		
Cash on hand	\$845	0
LIABILITIES		
Liability to stockholders	\$845	0
Citizens Savings and Loan Society, of Spokane, Wasi	nington.	
EDWARD O'SHEA, President. R. E. PORTERFIELD	, Secretary	
Amount of authorized capital	<b>\$2,00</b> 0,000	0
Par value of each share of stock at date of this report		
Number of shares sold during the year		96
Number of shares cancelled and withdrawn during the year  Number of shares in force at close of year		
Number of shares in force at close of year	0,1	70
RECEIPTS		
Cash on hand June 30, 1915	\$57,785	9
Dues paid by members		
Loans repaid	86,554	2
Interest collected		
Insurance and tax repaid by borrowers		
Contingent fund		
School warrants		
Loan fees	•	
Membership fees		
Examining fees	99	(
Total receipts	\$971 984	_
Total receipts	<b>\$011,002</b>	•
DISBURSEMENTS		
Withdrawals	\$177,171	4
Bills payable		
Dividends paid to members at 6 per cent per annum	27,430	
Loans	52,579	
Real estate	37,848	
Insurance and tax advanced to borrowers	10,052 4,108	
Contingent fund	1,638	
School warrants	1,959	
		(
Loan fees	260	
Membership fees	66	-
	66 42	2

Total disbursements .....

<del></del>		
ASSETS		
Cash on hand		
Loans (unpaid balance)		
Office building and other real		
Office furniture		
Insurance and tax		
Interest	15,657	00
Total assets	\$589,898	54
LIABILITIES		
Undivided profits (less expense, \$1,999.18)	\$16,519	22
Contingent fund	10,958	
Beserve fund	4,198	
xamining fees	57	
Incompleted loans	3,295	
Due members	504,370	
	004,010	20
Total liabilities	\$539 398	54
	4000,000	
Equitable Building, Loan and Investment Associ	ation, of Seattie,	
Washington.		
H. O. SHUEY, President. W.	S. BELL, Secretary.	
Amount of authorized capital.	*******************************	^^
Par Falm of such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such character of the such chara	\$8,000,000	w
Par Value of each share of stock at date of this report Number of shares sold during the year	\$100	
to shares sold during the year.		62
Number of shares cancelled and withdrawn during the year	· · · · · · · · · · · · · · · · · · ·	57
Number of shares cancelled and withdrawn during the year ber of shares in force at close of year	1,60	00
RECEIPTS		
tock	\$3,102	97
and July 1, 1915	23,857	
ta	20,001	
loans	40.054	
10kms	46,251	
estate	68,150	
estate	3,862	<b>5</b> 0
Total receipts		26
DISBURSEMENTS		
	e1 407 (	00
De Sanuar towar soneign and least improvement	\$1,437 \	
	ents 4,354	
	1,475	20
	200	~~
		14
Cends paid (6 per cent)	5,105 35,570	14 00
loans estate loans.	5,105 35,570 89,064	14 00 26
lock loans	5,105 35,570 89,064	14 00 26 00
loans loans estate loans.	5,105 35,570 89,064	14 00 26 00
loans loans estate loans.	5,105 35,570 89,064	14 00 26 00
loans loans	5,105 35,570 89,064 200 59,000 4,050	14 00 26 00 00 36

ASSETS		
Cash	\$4,050	36
Stock loans	33,470	
Real estate loans	,	
Real estate sold on contract, carried in loan account 64,000 00		
	81,189	27
Furniture and fixtures	200	
-		
Total assets	\$118,909	63
LIABILITIES		
Stock	\$102,871	05
Bills payable	15,000	00
Contingent fund	658	
Undivided profits	380	00
Total liabilities	\$118,909	63
Receiver appointed November 4, 1916.		
Fidelity Savings and Loan Association, of Spokane, Was	hington	
	_	
OTTO W. SPERLING, President. F. S. McWILLIAMS,	Secretary	<b>'</b> -
Amount of authorized capital		
Par value of each share of stock at date of this report		
Number of shares sold during the year	7.0	622
	•	
Number of shares cancelled and withdrawn during the year	8,	052
Number of shares cancelled and withdrawn during the year  Number of shares in force at close of year	8,	
	8,	052
Number of shares in force at close of year	8,	052 170
Number of shares in force at close of year	8,0 17,	052 170 30
Number of shares in force at close of year	8, 17, \$1,912 491	052 170 30
Number of shares in force at close of year	8, 17, \$1,912 491	30 62 65
RECEIPTS  Cash on hand July 1, 1915	8, 17, \$1,912 491 69	30 62 65 48
Number of shares in force at close of year	\$1,912 491 69 56,957 249,226 19,230	30 62 65 48 01 00
Number of shares in force at close of year  RECEIPTS  Cash on hand July 1, 1915 Bonds and warrants. Penalties on delinquent loans Real estate loans repaid. Dues Stock loans repaid. Membership fees	\$1,912 491 69 56,957 249,226 19,230 662	30 62 65 48 01 00 27
Number of shares in force at close of year.  RECEIPTS  Cash on hand July 1, 1915.  Bonds and warrants.  Penalties on delinquent loans.  Real estate loans repaid.  Dues  Stock loans repaid.  Membership fees  Notes payable	\$1,912 491 69 56,957 249,226 19,230 662 12,500	30 62 65 48 01 00 27
Number of shares in force at close of year.  RECEIPTS  Cash on hand July 1, 1915.  Bonds and warrants Penalties on delinquent loans Real estate loans repaid.  Dues Stock loans repaid.  Membership fees Notes payable Special deposits withdrawn.	\$1,912 491 69 56,957 249,226 19,230 662 12,500 36,127	30 62 65 48 01 00 27 00 90
RECEIPTS  Cash on hand July 1, 1915. Bonds and warrants Penalties on delinquent loans Real estate loans repaid. Dues Stock loans repaid. Membership fees Notes payable Special deposits withdrawn Taxes and insurance	\$1,912 491 69 56,957 249,226 19,230 662 12,500 36,127 5,272	30 62 65 48 01 00 27 00 26
RECEIPTS  Cash on hand July 1, 1915	81,912 491 69 56,957 249,226 19,230 662 12,500 36,127 5,272	30 62 65 48 01 00 27 00 90 26 65
Number of shares in force at close of year.  RECEIPTS  Cash on hand July 1, 1915 Bonds and warrants. Penalties on delinquent loans. Real estate loans repaid Dues Stock loans repaid Membership fees Notes payable Special deposits withdrawn. Taxes and insurance. Payments on real estate contracts. Interest	8, 17, \$1,912 491 69 56,957 249,226 19,230 662 12,500 36,127 5,272 367 32,150	30 62 65 48 01 00 27 00 90 26 65 78
Number of shares in force at close of year.  RECEIPTS  Cash on hand July 1, 1915 Bonds and warrants. Penalties on delinquent loans Real estate loans repaid. Dues Stock loans repaid. Membership fees Notes payable Special deposits withdrawn Taxes and insurance. Payments on real estate contracts Interest Sundries	\$1,912 491 69 56,957 249,226 19,230 662 12,500 36,127 5,272 32,150 6,873	30 62 65 48 01 00 27 00 90 26 65 78
Number of shares in force at close of year.  RECEIPTS  Cash on hand July 1, 1915 Bonds and warrants. Penalties on delinquent loans. Real estate loans repaid Dues Stock loans repaid Membership fees Notes payable Special deposits withdrawn. Taxes and insurance. Payments on real estate contracts. Interest	8, 17, \$1,912 491 69 56,957 249,226 19,230 662 12,500 36,127 5,272 367 32,150	30 62 65 48 01 00 27 00 90 26 65 78
Number of shares in force at close of year.  RECEIPTS  Cash on hand July 1, 1915 Bonds and warrants. Penalties on delinquent loans Real estate loans repaid. Dues Stock loans repaid. Membership fees Notes payable Special deposits withdrawn Taxes and insurance. Payments on real estate contracts Interest Sundries	8, 17, \$1,912 491 69 56,957 249,226 19,230 662 12,500 36,127 5,272 367 32,150 6,873 367	30 62 65 48 01 00 27 00 26 65 78 23 65
RECEIPTS  Cash on hand July 1, 1915 Bonds and warrants Penalties on delinquent loans Real estate loans repaid. Dues Stock loans repaid. Membership fees Notes payable Special deposits withdrawn Taxes and insurance Payments on real estate contracts Interest Sundries Rent credited on real estate.  Total receipts	8, 17, \$1,912 491 69 56,957 249,226 19,230 662 12,500 36,127 5,272 367 32,150 6,873 367	30 62 65 48 01 00 27 00 26 65 78 23 65
RECEIPTS  Cash on hand July 1, 1915 Bonds and warrants Penalties on delinquent loans Real estate loans repaid. Dues Stock loans repaid. Membership fees Notes payable Special deposits withdrawn Taxes and insurance Payments on real estate contracts Interest Sundries Rent credited on real estate  Total receipts  DISBURSEMENTS	8, 17, \$1,912 491 69 56,957 249,226 19,230 662 12,500 36,127 5,272 367 32,150 6,873 367	30 62 65 48 01 00 27 00 90 26 65 78 23 65
RECEIPTS  Cash on hand July 1, 1915 Bonds and warrants. Penalties on delinquent loans. Real estate loans repaid Dues Stock loans repaid Membership fees Notes payable Special deposits withdrawn Taxes and insurance. Payments on real estate contracts. Interest Sundries Rent credited on real estate  Total receipts  DISBURSEMENTS Bonds and warrants.	8, 17, \$1,912 491 69 56,957 249,226 19,230 662 12,500 36,127 5,272 367 32,150 6,873 367 \$422,208	30 62 65 48 01 00 27 00 90 26 65 78 23 65
Number of shares in force at close of year.  RECEIPTS  Cash on hand July 1, 1915 Bonds and warrants. Penalties on delinquent loans. Real estate loans repaid. Dues Stock loans repaid. Membership fees Notes payable Special deposits withdrawn Taxes and insurance. Payments on real estate contracts. Interest Sundries Rent credited on real estate.  Total receipts  DISBURSEMENTS  Bonds and warrants Expense	\$1,912 491 69 56,957 249,226 19,230 36,127 5,272 367 32,150 6,873 367 \$422,208	30 62 65 48 01 00 27 00 90 26 65 78 23 65 80
RECEIPTS  Cash on hand July 1, 1915.  Bonds and warrants Penalties on delinquent loans Real estate loans repaid Dues Stock loans repaid Membership fees Notes payable Special deposits withdrawn Taxes and insurance Payments on real estate contracts Interest Sundries Rent credited on real estate  Total receipts  DISBURSEMENTS  Bonds and warrants Expense Furniture and fixtures	8, 17, \$1,912 491 69 56,957 249,226 19,230 662 12,500 36,127 5,272 367 32,150 6,873 367 \$422,208	30 62 65 48 01 00 27 00 90 26 65 78 23 65
RECEIPTS  Cash on hand July 1, 1915. Bonds and warrants Penalties on delinquent loans. Real estate loans repaid. Dues Stock loans repaid. Membership fees Notes payable Special deposits withdrawn. Taxes and insurance. Payments on real estate contracts. Interest Sundries Rent credited on real estate.  Total receipts  DISBURSEMENTS  Bonds and warrants. Expense Furniture and fixtures. Interest	\$1,912 491 69 56,957 249,226 19,230 662 12,500 36,127 5,272 367 32,150 6,873 367 \$422,208	30 62 65 48 01 00 27 00 90 26 65 78 23 65 80 70 33 24 72
RECEIPTS  Cash on hand July 1, 1915. Bonds and warrants Penalties on delinquent loans Real estate loans repaid. Dues Stock loans repaid. Membership fees Notes payable Special deposits withdrawn Taxes and insurance Payments on real estate contracts. Interest Sundries Rent credited on real estate  Total receipts  DISBURSEMENTS  Bonds and warrants Expense Furniture and fixtures. Interest Uithdrawals	\$1,912 491 69 56,957 249,226 19,230 662 12,500 36,127 5,272 367 32,150 6,873 367 \$422,208	30 62 65 48 01 00 26 70 90 26 65 78 23 65 80
RECEIPTS  Cash on hand July 1, 1915. Bonds and warrants Penalties on delinquent loans. Real estate loans repaid. Dues Stock loans repaid. Membership fees Notes payable Special deposits withdrawn. Taxes and insurance. Payments on real estate contracts. Interest Sundries Rent credited on real estate.  Total receipts  DISBURSEMENTS  Bonds and warrants. Expense Furniture and fixtures. Interest	\$1,912 491 69 56,957 249,226 19,230 662 12,500 36,127 5,272 367 32,150 6,873 367 \$422,208	30 62 65 48 01 00 27 00 26 65 78 23 65 80 70 32 47 70 50

Real estate	\$6,751	06
Notes payable	12,500	
Special deposit in bank	16,127	
	5.781	
Taxes and insurance		
Loans on real estate	133,592	
Credit to contingent fund	1,125	
Dividends at 6 per cent	20,100	
Sundries	6,907	
Cash on hand June 30, 1916	30,672	85
Total disbursements	\$422,208	80
ASSETS		
Loans on real estate	\$422,948	73
Loans to members on stock	9,353	
Bonds and warrants		21
Real estate	10,752	
Taxes and insurance	2,475	
Accrued interest	5,245	
Real estate contracts	8,453	
Furniture and fixtures.	1,528	
Cash on hand.	30,672	
Jan mand	50,012	
Total assets	\$491,527	88
LIABILITIES		
Fully Daid shares	\$207.400	۸۸
Install Front shows	247,486	
Uncompleted loans	18,064	
Continuent fund Membership	3,000	
Membership account Surplus and undivided profits	1,160	
Surpice and undivided nucles		
Surplus and undivided profits.	14,416	- 61
Total liabilities	\$491,527	88
German Savings, Building and Loan Association, of S	enttie	
Washington.		
AUGUST MEHLHORN, SR., Vice Pres. AUGUST MEHLHORN	I, JR., Sec	c.
D- t of authorized central	29 000 000	00
Amount of authorized capital	\$100	00
Par value of each share of stock at date of this report		052
<b>5-2</b>		
RECEIPTS  Payroents on account of loans and rents  Over le National Bank (note)	<b>61</b> 4 074	10
THE OH ACCOUNT OF IORUS AND LEUTS	\$14,074	
Seattle National Bank (note)	2,000 973	
-		
Total receipts	\$17,048	06

DISBURSEMENTS	
· Expense	<b>\$269</b> 8
Dividends	5,841 9
Repayment account note	800 0
Repayments on certificates of stock	8,431 4
Taxes, assessments, fire insurance, care of properties	
Interest on note	110 2
Overdraft July 1, 1915	169 9
Total disbursements	\$17,048 0
ASSETS	
Furniture and fixtures	\$42 0
Stationery and printing	<b>70</b> 0
Real estate	7,114 8
Stock loans	2,250 0
Real estate loans	65,790 5
Total assets	\$75,267 3
LIABILITIES	
Overdraft	\$973 8
Note, Seattle National Bank	1,200 0
Reserve fund	235 3
Certificates of stock	72,858 1
Total liabilities	\$75,267 3
**************************************	
The Home Savings and Loan Association, of Seattle, Wa	_
W. V. EDDY, President. A. E. PIERCE,	•
Amount of authorized capital	
Number of shares in force at beginning of the year	<b>\$100 0</b>
Number of shares sold during the year	
Number of shares cancelled and withdrawn during the year	
Number of shares in force at close of year	14,60
RECEIPTS	
Cash on hand July 1, 1915	<b>\$492</b> 5
"Class A" \$18,809 56	
"Class B" 5,287 45	
"Class C" 7,546 00	
Miscellaneous	
<del></del>	26,778 0
Repayment of real estate loans	899 6
Repayment of real estate loans	899 6 816 7
Repayment of real estate loans	26,778 0: 899 60 816 7' 96 00
Repayment of real estate loans	899 60 816 7

DISBURSEMENTS		
Real estate loans	\$17,643	48
Withdrawals-		
"Class A" \$1,251 86		
"Class B" 100 00		
"Class C" 98 00		
Miscellaneous	8,791	04
Expense on real estate owned	36	
General expense	84	00
Suspense	83	71
Cash on hand June 30, 1916	6,576	79
Total disbursements	\$28,166	60
ASSETS		
Cash	\$6,576	70
Furniture and fixtures	100	
Real estate loans	17,656	
Real estate owned	8,751	
Total assets	\$28,085	18
LIABILITIES		
Contingent fund	\$38	80
"Class A"		
"Class B" 5,228 56		
"Class C" 7,525 79		
Miscellaneous		
lorten	26,418	
fortgages on real estate owned	1,600 33	79
Total liabilities	\$28,085	18
Industrial Building and Loan Association, of South Beil	ingham,	
Washington.		
CYRUS GATES, President. F. D. YALE,	Secretary	•
mount of authorised capital	2,000,000	00
T value of each share of stock at date of this report	\$100	00
Unal.		76
umber of shares sold during the year	1	48 58 <b>6</b>
RECEIPTS		
<b>le</b> h	<b>e</b> 1 401	00
embership fees	\$1,401 50	ษษ 50
CP-L-	1,589	
	8,100	
ald-up stock	2,895	
ment stock	2,895	•

Loan repaid	\$1,000	0
Real estate payments	20	00
Bills payable (bank)	200	00
Total receipts	\$9,757	51
DISBURSEMENTS		
Withdrawal serial stock	\$635	00
Withdrawal paid-up stock	1,550	00
Loans made, first mortgages	3,250	00
Dividends paid on withdrawals	1,675	00
Inst. paid	6	8
Expense, total	200	40
Cash on hand	2,240	34
Bills payable paid (bank)	200	00
Total disbursements	\$9,757	59
ASSETS		
Cash on hand	\$2,240	34
Loans	26,800	00
Accrued interest	778	30
Fines unpaid	22	20
Books and stationery	25	00
Total assets	\$29,865	84
LIABILITIES		
Serial stock	\$12,909	10
Paid-up stock	8,000	00
Dividend fund	6,379	68
Contingent fund	119	17
Net gain for year	2,457	92
Total liabilities	\$29,865	84
,		

# inland Empire Building and Loan Association, of Walla Walla, Washington.

E. E. WRIGHT, Secretary.

551 95

JOHN SMITH. Vice President.

Amount of authorized capital	\$2,000,000 00
Par value of each share of stock at date of this r	eport \$100 00
Number of shares sold during the year	217
Number of shares cancelled and withdrawn during	the year 229
Number of shares in force at close of year	1980 1/2
RECEIPTS	
Cash on hand July 1, 1915	\$821 72
Installment stock	14,157 57
Interest on loans	6,470 36
Bonus	69 85
Sundry advances repaid	1.531 25

		_
Bills Dayable	\$7,150	0
Stock loans repaid	305	
Real estate loans repaid	7,673	
Suspense items	35	
Real estate contracts	315	
Total receipts	\$39,082	3
DISBURSEMENTS		
Real estate loans	\$20,662	5
tock loans	960	
Vithdrawal of stock	5.133	
ebenture bonds retired	1,983	3
IVI⊂md on paid-up stock	20	(
Iterest on bonds	378	٤
eterest on bills payable	160	٤
IIIS TOAVAble repaid	7,150	(
COED plete loans	700	(
CENCLEY advances	1,089	ę
Perating expenses	298	į
examination	28	(
1spense account	54	•
On hand July 1, 1916	462	ŧ
Total disbursements	\$39,082	:
ASSETS		
ash	\$462	į
urmiture and fixtures	100	(
Cal estate loans	86,661	
Stock loans	3,080	
oundry advances	15	
IMICE Test (accrued)	683	1
Real estate contract	860	(
Total assets	\$91,862	(
LIABILITIES		
Installment stock	<b>\$74</b> ,842	ı
	540	1
	13,235	
	1,000	(
Interest (accrued)	365	
Incomplete loans	600	1
Snews (accrued)	20	(
Reserve	479	
	779	:
Total liabilities	\$91,862	(

## inter-State Building, Loan and Trust Association, of Walla Walla, Washington.

Washington.		
F. W. PAINE, President. BEN G. STONE	, Secretar;	у.
Amount of authorized capital	\$2,000,000	00
Par value of each share of stock at date of this report		
Number of shares sold during the year		174
Number of shares cancelled and withdrawn during the year		058
		193
Number of shares in force at close of year	0,	193
RECEIPTS		
	*** ***	
Cash on hand July 1, 1915		
Regular stock	63,721	
Interest		
Real estate loans	7,562	
Stock loans		
Debenture bonds	12,000	-
Insurance and taxes, repaid	1,057	75
Total receipts	<b>8100 000</b>	- 00
Total receipts	\$125,030	28
DISBURSEMENTS		
Furniture and fixtures	\$6	45
Real estate loans	•	
Stock loans	17.620	
Regular stock	41,224	
Debenture bonds	8,650	
Interest	4,775	
Paid-up stock	6,300	
Insurance and taxes, advanced	8,140	
Expense, including salaries	2,779	
Cash on hand June 30, 1916.	4.106	
,		
Total disbursements	\$128,636	29
ASSETS		
Cash '	\$4,106	48
Real estate loans	267,718	
Stock loans	15,968	07
Furniture and fixtures	396	45
Insurance and taxes, advanced	6,233	06
Interest due	7.099	
Total assets	\$801,512	46
LIABILITIES		
Regular stock	\$187,254	80
Paid-up stock	57,130	00
Debenture bonds	86,950	00
Contingent fund	12,441	69
Undivided profits	5,431	80
Interest and expense due	2,304	17
		<u></u> :
Total liabilities	¥801,512	46

## Kitsap County Savings and Loan Association, of Bremerton, Washington.

EDW. J. TAGGART, President. TH	IOMAS STEVENSON,	Secretary	
Amount of authorized capital		\$250,000 \$100	
RECEIPTS			
Cash June 30, 1915		\$5 2,332 12,438	26 56
Interest on loans		1,748 4,582	
Total receipts		\$21,012	43
DISBURSEMEN	TS.		
New loans Shares withdrawn Rank loan repaid. Interest on loan repaid. Payment to secretary. Dividends on Div. "B". State audit Annual license Annual premium on bonds. Accounting Advances Advertising Cash on hand. Total disbursements		\$7,849 2,142 4,725 84 48 175 21 10 10 161 7 44 5,871	09 00 93 55 83 75 00 45 50 25 68
ASSETS			
Nortgage Accrued interest Cash	·······	5,871	20 68
Total assets	••••••	\$17,497	06
LIABILITIE	-		
To shareholders Contingent fund Undivided profits Account payable	• • • • • • • • • • • • • • • • • • • •	\$16,478 187 674 156	28 87
Total liabilities		\$17,497	08

Modern Savings and Loan Associa	· · · · · · · · · · · · · · · · · · ·	
C. D. MURDOCH, Vice President.	F. H. ATCHINSON, Secretar	
Amount of authorized capital		
Par value of each share of stock at date of		
Number of shares sold during the year		34
Number of shares cancelled and withdrawn	-	20
Number of shares in force at close of year.		1,21
RECEIP	rs	
On stock		1 1
On loans		0 0
For interest		68
For bills payable	4,55	0 0
Sundries	5	1 0
Total receipts	\$22,25	9 0
DISBURSEM	ENTS	
Stock		o 0
Loans	*-,	
Interest		61
Fees to state	-	8 5
General expenses and salaries	•	4 5
Rent		0 0
Cash dividends	-	-
Bills payable	· · · · · · · · · · · · · · · · · · ·	
Sundries		9 3
Total disbursements	\$19,75	1 2
ASSET	3	
Cash	\$4,02	5 8
Accrued interest		
Loans		
Real estate	1,93	4 6
Office furniture and supplies	4	3 7
Personal accounts	5	7 1
Total assets	\$45,67	0 6
LIABILIT	IE8	
Stock		6 2
Bills payable	<b>422,2</b> 0	
Dividends due July 1, 1916		9 7
Contingent fund		8 3
Personal account		3
Surplus	1	6 1
Total liabilities	\$45,67	0 6

	ington.	
J. G. PRICE, Vice President. CHARLES DIELMAN,	-	
Amount of authorized capital\$		
Par value of each share of stock at date of this report	<b>\$100</b>	
Number of shares sold during the year		2
Withdrawn during the year	\$3,721	
Shares in force at close of year	\$6,454	Đ
RECEIPTS		
July 1, 1915, cash on hand and in bank	\$1,091	1
Received on shares	2,366	8
Interest on real estate loans	620	2
Repayments on real estate loans	2,156	1
Loan expenses	42	
Bills payable	600	Ò
<del>-</del>		-
Total receipts	\$6,876	4
DISBURSEMENTS		
Withdrawals	\$3,721	2
and to horrowers	2,111	
Expenses—State license, rent, salary, printing, state league dues,	-,	_
SUPER hand masters advertising and stationers	174	7
OLD PIDOREO	32	•
Dividends	419	-
Total disbursements	\$6,458	9
ASSETS		
alance due on real estate loans	\$6,722	•
ash on hand and in bank.	417	
The mand and in pana	411	*
Total assets	\$7,140	41
LIABILITIES		
Te man	***	J
ront and loss.	\$6,454	
112	40	
Ontingent and	600	
ontingent fund	45	·
Total liabilities	\$7,140	4
New Whatcom Building and Loan Association, of Beilin Washington.	gham,	

GEO. E. GAGE, President.	THOS. B. COLE, Secretary.
Part of authorized capital	\$1,000,000 00
No. Value of each share of stock at date of the	nis report \$100 00
Number of shares sold during the year	218
Number of shares sold during the year Number of shares cancelled and withdrawn during the property of shares in force at close of year	ring the year 327
Number of shares cancelled and withdrawn du	

RECEIPTS		
Cash on hand July 1, 1915	\$618	Qı
Dues	4,010	-
Interest	5,930	
Delinquent items	4,472	
Items paid in advance	182	
Loans repaid	24,876	7
Savings stock sold	8,050	
Bills payable	6,000	00
Payments on insurance advanced	72	50
Total receipts	\$54,213	81
DISBURSEMENTS		
	*02.000	
Loans on real estate	\$23,200 455	
Salary	840	-
Advanced items transferred	179	-
Delinquent items	3.072	
Insurance premiums advanced	76	
Withdrawals paid	12,354	
Interest on withdrawals	4,757	
Interest on borrowed money	164	
Bills payable	4.500	
Cash on hand and in bank	4,615	-
Total disbursements	\$54,213	89
ASSETS		
Safe	\$150	00
Loans on real estate	65,637	46
Delinquent dues	726	50
Delinquent interest	500	22
Insurance premium advanced	26	20
Cash on hand and in bank	4,615	08
Total assets	\$71,655	41
LIABILITIES		
Serial stock	\$20,009	
Savings stock	28,200	
Items paid in advance	49	-
Dividend account	15,912	
Fund for contingent losses	2,421	
Undivided profit	62	
Bills payable	5,000	-00
Total liabilities	\$71,655	41

Northwestern Building and Loan Association, of Tacoma, V	Vashington.	
H. G. WILLIAMS, President. C. L. ROBERTS,	Secretary.	
Amount of authorized capital	5,000,000 00	)
Par value of each share of stock at date of this report	\$100 00	)
Number of shares sold during the year	1,108	
Number of shares cancelled and withdrawn during the year	911	
Number of shares in force at close of year	2,360	)
RECEIPTS		
Cash on hand July 1, 1915	\$4,625 72	2
Real estate loans	22,931 30	
"A" stock "B" stock	3,225 40	
	11,525 02	
"D" stock	25,500 00	
Membership fees	81 50 5 00	
Expense (rentals)	88 <b>4</b> 1	
Bills payable	19,800 00	
Stock loans	1,175 00	
Interest	12 74	
Debenture bonds	1,000 00	)
Exchange checks	1,518 46	3
Total receipts	\$91,488 55	5
DISBURSEMENTS		
Real estate loans	\$43,332 55	
"A" stock	696 85	
"C" Stock	6,491 11	
Real estate expense (taxes)	2,357 58 19 87	
Bills payable (taxes)	25.000 00	
Stock loan Exchange shade	3,740 00	
Exchange checks	1,518 46	
Interest Expense	442 68	3
Expense Cash on hand	1,942 11	1
Cash on hand	5,947 34	Ŀ
_	<del></del>	-
Total disbursements	\$91,488 55	j
ASSETS		
Cash		
Cash on hand. Real estate loans, advances and interest	\$5,947 34	
Stock 1	80,010 83	
Real	100 00 804 73	
Furniture and fixtures. Undivided profit deficit.	250 00	
Undivided profit deficit.	143 82	
Total assets	\$87,256 72	-
LIABILITIES		
"A" stock	\$5,029 91	
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	30,870 48	
and stock	48,349 56	
P stock	134 68	

<del></del>	
Debenture bonds	\$1,000 00
Interest on same	\$1,000 00 22 67
Incomplete loans	47 90
Bills payable	800 00
Interest on same	18 40
Contingent fund	983 17
Contingent land	300 11
Total liabilities	\$87,256 72
Olympia Building and Loan Association, of Olympia, Wa	shington.
C. H. SPRINGER, President. WALTER F. McDOWELL	Secretary.
Amount of authorized capital	•
Par value of each share of stock at date of this report,	\$100 OO
Number of shares sold during the year	4,461
Number of shares cancelled and withdrawn during the year	1,630 1/4
Number of shares in force at close of year	9,3531/4
RECEIPTS	
Cash in bank July 1, 1915	\$16,520 88
Paid-up stock	58,475 00
Savings stock	120,599 29
Installment stock	11,600 01
Juvenile stock	476 65
Juvenile stock (school savings)	1,103 84
Mortgage loans repaid	102,674 90
Stock loans repaid	8,173 00
Warrants (Thurston county)	2,644 79
Borrowed money	7,000 00 24,920 17
Membership fees	2,314 50
Attorney fees	242 50
Appraisal fees	171 00
Real estate (rentals from home office site)	880 00
Taxes, etc., repaid by borrowers	266 48
Loan balances (construction loan account)	4,246 15
Total receipts	\$362,309 11
DISBURSEMENTS	
First mortgage loans	\$231,625 00
Loans on Association stock	15,127 52
Loan balances (construction loan account)	2,437 36
Withdrawals of paid-up stock	19,425 00
Withdrawals of savings stock	32,180 47
Withdrawals of installment stock	11,067 06
Withdrawals of juvenile stock	367 80
Withdrawals of juvenile stock (school savings bank)	386 00
Real estate (home office site)	672 64
Bills payable (mortgage on home office site)	5,000 00
Taxes, assessments, etc., paid for borrowers  Borrowed money	1,554 41 7,000 00
Interest on borrowed money	25 41
Warrents (Thurston county)	9 844 70

Warrants (Thurston county).....

2,644 79

141 80

Building, Loan and Savings Associations		zo —
Profit and loss (rebates of interest overpaid)	<b>\$4</b> 0	07
Expenses	3,842	
Attorney fees	242	50
Appraisers' fees	171	
Dividends	21,750	21
Cash in bank June 80, 1916	7,107	88
Total disbursements	\$862,309	11
assets		
Cash in bank	\$7,107	83
First mortgage loans (net amount due)	862,271	11
Loans on Association stock	18,711	
Real estate (home office site)	7,250	
Taxes and assessments paid for borrowers	1,287	
Furniture and fixtures	900	00
Total assets	\$392,528	07
Due members on paid-up shares	\$221,450	00
Pue members on savings shares	142,566	
Due members on installment shares	17,928	49
Due members on invenile shares	750	70
UGE Members on invenile shares (school savings bank)	1,821	
Due borrowers on construction loans	4,286	
Contingent fund	2,512	
Reserve fund	1,267	71
Total liabilities	\$392,528	07
Pacific Building and Loan Association, of Tacoma, Was ORVILLE BILLINGS, President. A. E. ROTHERMEL, Amount of authorized capital	Secretary	
	\$100	00
	43,6	
	10,0	
Number of shares in force at close of year	115,4	
DECEIDAG		
Nes	\$810,593	14
eal estate loan, principal.	179,482	54
eal estate loan, interest.	71,907	
Stock loans, principal	16,905	
Stock loans, interest.	1,421	
Real estate contracts.	408	
Real estate cents.	1,039	
Suspense on loans	1,667	
BILLS	10,715	
Accounts receivable Miscellanese	29,500 896	
Miscella neous	715	
	110	

DISBURSEMENTS		
Real estate loans	\$883,935	39
Advance on real estate loans	7,265	
Stock loans	80,541	92
Withdrawals	147,856	
Advance dues	2,603	39
Suspense	9,085	23
Accounts receivable	803	63
Furniture and fixtures	856	50
Real estate	334	76
Profit and loss	98	97
Collection commissions	8,744	17
Selaries	5,941	67
Printing and stationery	1,697	76
Telephone, telegraph and postage	1,174	85
Miscellaneous operation expense	8,004	51
Loan expense	3,512	04
General expense	394	28
Real estate taxes and expense	1,083	69
Bills payable	29,500	00
Bills payable, interest	79	78
Miscellaneous	111	55
Total disbursements	*****	11
Total disputsements	<b>\$</b> 038,020	
ASSETS	<b>\$</b> 038,020	
	\$854,288	
ASSETS	,,	81
ASSETS Real estate loans	<b>\$854,288</b>	81 22
ASSETS  Real estate loans	\$854,288 44,127	81 22 82
ASSETS  Real estate loans	\$854,288 44,127 8,061	81 22 82 88
ASSETS  Real estate loans. Stock loans Advance on real estate loans. Real estate	\$854,288 44,127 8,061 17,186	81 22 82 88 66
ASSETS  Real estate loans. Stock loans Advance on real estate loans. Real estate Real estate Real estate sold under contracts.	\$854,288 44,127 8,061 17,186 3,165	81 22 82 88 66
ASSETS  Real estate loans	\$854,288 44,127 8,061 17,186 3,165 701	81 22 82 88 66 00 81
ASSETS  Real estate loans	\$854,288 44,127 8,061 17,186 3,165 701 8,607	81 22 82 88 66 00 81 48
ASSETS  Real estate ioans	\$854,288 44,127 8,061 17,186 3,165 701 8,607 6,469	81 22 82 88 66 00 81 48 43
ASSETS  Real estate loans Stock loans Advance on real estate loans. Real estate Real estate Real estate sold under contracts. Accounts receivable Furniture and fixtures. Accrued interest on real estate loans. Accrued interest on stock loans. Cash	\$854,288 44,127 8,061 17,186 3,165 701 8,607 6,469 3,411 3,055	81 22 82 88 66 91 48 43 65
ASSETS  Real estate loans. Stock loans Advance on real estate loans. Real estate Real estate sold under contracts. Accounts receivable Furniture and fixtures. Accrued interest on real estate loans Accrued interest on stock loans.	\$854,288 44,127 8,061 17,186 3,165 701 8,607 6,469 3,411 3,055	81 22 82 88 66 91 48 43 65
ASSETS  Real estate loans Stock loans Advance on real estate loans. Real estate Real estate Real estate sold under contracts. Accounts receivable Furniture and fixtures. Accrued interest on real estate loans. Accrued interest on stock loans. Cash	\$854,288 44,127 8,061 17,186 3,165 701 8,607 6,469 3,411 3,055	81 22 82 88 66 91 48 43 65
ASSETS  Real estate loans. Stock loans Advance on real estate loans. Real estate Real estate sold under contracts. Accounts receivable Furniture and fixtures. Accrued interest on real estate loans. Accrued interest on stock loans. Cash  Total assets  LIABILITIES	\$854,288 44,127 8,061 17,186 3,165 701 8,607 6,469 3,411 3,055	81 22 82 88 66 00 81 48 43 65
ASSETS  Real estate loans. Stock loans Advance on real estate loans. Real estate Real estate sold under contracts. Accounts receivable Furniture and fixtures. Accrued interest on real estate loans. Accrued interest on stock loans. Cash  Total assets  LIABILITIES  Liability to members.	\$854,288 44,127 8,061 17,186 3,165 701 8,607 6,469 3,411 3,055 \$944,075	81 22 82 88 66 00 81 48 43 65
ASSETS  Real estate loans. Stock loans Advance on real estate loans. Real estate Real estate sold under contracts. Accounts receivable Furniture and fixtures. Accrued interest on real estate loans. Accrued interest on stock loans. Cash  Total assets  LIABILITIES  Liability to members. Uncompleted loans.	\$854,288 44,127 8,061 17,186 3,165 701 8,607 6,469 8,411 3,055 \$944,075	81 22 82 88 66 00 81 48 43 65 26
ASSETS  Real estate loans. Stock loans Advance on real estate loans. Real estate Real estate sold under contracts. Accounts receivable Furniture and fixtures. Accrued interest on real estate loans. Accrued interest on stock loans. Cash  Total assets  LIABILITIES  Liability to members. Uncompleted loans Contingent fund	\$854,288 44,127 8,061 17,186 3,165 701 8,607 6,469 3,411 3,055 \$944,075 \$889,229 20,781 5,178	81 22 82 88 68 00 81 48 43 65 26
ASSETS  Real estate loans. Stock loans Advance on real estate loans. Real estate Real estate sold under contracts. Accounts receivable Furniture and fixtures. Accrued interest on real estate loans. Accrued interest on stock loans. Cash  Total assets  LIABILITIES  Liability to members. Uncompleted loans.	\$854,288 44,127 8,061 17,186 3,165 701 8,607 6,469 8,411 3,055 \$944,075	81 22 82 88 66 00 81 48 43 65 26 64 97 92 23

Total liabilities ...... \$944,075 26

Prudential Savings and Loan Association, of Seattle,	Washington	١.
G. E. TILTON, President. F. E. DINGL		
Amount of authorized capital	\$2,000,000	00
Ther walue of each share of stock at date of this report	\$100	00
Number of shares sold during the year	1,	746
Number of shares in force at close of year	<b>1,</b> '	10 738
Affiliper or susteen in rotes as close or Journal	··· <b>-,</b>	
RECEIPTS		
Installment stock	\$4,715	14
Interest on loans		00
Payments on real estate loans	4	10
Total receipts	\$4,724	24
	<b>,</b> ,,,,	
DISBURSEMENTS		
Real estate loans.		
Withdrawils		00
Cash on hand June 30, 1916	\$8,554	24
Total disbursements	\$4,724	24
ABSETS		
Real estate loans.	\$1,095	90
Cash	3,554	
Total assets		14
Total assets	\$2,000	7.2
LIABILITIES		
Due to members	\$4,645	
Interest	5	00
Total liabilities		14
Puges and a land a land a land a land a land		
Puget Sound Savings and Loan Association, of Scattle	, wasningte	on.
OLDER LINDEN Vice President B CAMPRE	T.T. Secretary	,
Amount of authorized capital	\$2,000,000	00
Par Value of each share of stock at date of this report	\$100	00
RECEIPTS		
Expense Savings shares	\$2,372	55
Savings shares Pully naid shares	596,814	
Pully paid shares.  Installment stock	18,310	
4020-	0,202	
4470-		
Interest Real estate loans.	73,680	
STATE IORIS	218,774	50

Stock loans	\$25,306	
Real estate contracts	2,844	
Taxes and insurance advanced	5,199	
Bonds and warrants	87,672	
Balance carried from June 80, 1915	81,874	20
Total receipts\$	1 191 600	22
Total receipts	1,121,009	02
DISBURSEMENTS		
Expense	\$18,993	06
Savings shares	305,825	91
Fully paid shares	5,966	59
Installment stock	52,439	02
Class "B" stock	6,853	
Undivided profits	763	81
Real estate loans	485,635	-
Stock loans	30,499	61
Incomplete loans	13,235	
Taxes and insurance advanced	11,119	72
Bonds and warrants	116,910	35
Insurance	229	21
Interest	1,499	
Real estate contracts	5,700	00
Sundry account	909	37
Balance on hand June 80, 1916	65,029	20
Total disbursements	1 121 800	20
Total disputeements	1,121,000	UL
ASSETS .		
lleal estate loans	\$905,479	54
Stock loans	10,612	
Real estate sold under contract	14,662	
Real estate	2,504	
Interest due and accrued	12,474	
Taxes and insurance advanced	8,174	
Furniture and fixtures	2.083	
Bonds and warrants	29,251	
Cash on hand	65,029	
<u> </u>		
Total assets\$	1,050,270	94
LIABILITIES		
Installment stock	\$109,215	85
"B" stock	5,318	78
Fully paid stock	90.009	
Combined the shape	39,063	
Savings stock	849,162	
Undivided profits	849,162 30,361	41
Undivided profits Incomplete loans	849,162	41
Undivided profits Incomplete loans Insurance	849,162 30,361 11,997 115	41 39 78
Undivided profits Incomplete loans	849,162 30,361 11,997	41 39 78
Undivided profits Incomplete loans Insurance	849,162 30,361 11,997 115 5,036	41 39 78 24

Puliman Savings and Loan Association,	of Pullman, Was	hington.	
J. N. EMERSON, President.	M. K. SNYDER,	Secretary	
Amount of authorized capital		\$400,000	00
Par value of each share of stock at date of this		\$100	
Number of shares sold during the year ("A" 787 Number of shares cancelled and withdrawn dur	ing the year	1,09	3.2
("A" 536.5, "D" 125.5)			862
Number of shares in force at close of year	• • • • • • • • • • • • • • • • • • • •	3,	385
RECEIPTS			
Cash on hand July 1, 1915		\$5,740	87
Dues on "A" stock collected		32,154	06
Interest received on loans and balances		18,560	
Fees and fines collected		471	
Real estate loans paid		38,125	
Stock loans paid	• • • • • • • • • • • • • • • • • • • •	6,585	
Loan fees collected	• • • • • • • • • • • • • • • • • • • •	251 35,620	
Notes and bonds issued	••••••	20,500	
Rentals received from real estate		119	
Insurance premiums paid		180	
bupense items received		2,706	
Miscella meous items	•••••	•	06
Total receipts		\$155,994	94
DISBURSEMENT			
Real estate loans issued		\$59,479	
Inene leened		6,987	
Maturity of "A" stock paid.	• • • • • • • • • • • • • • • • • • • •	17,700	
Withdrawals of "A" stock.	• • • • • • • • • • • • • • • • • • • •	15,739	
Cancellation fully paid ("D") stock  Notes and bonds paid	• • • • • • • • • • • • • • • • • • • •	12,550	
		21,900 8,645	
Interest paid on notes and bonds.	• • • • • • • • • • • • • • • • • • • •	679	
Loan fees disbursed		315	
Expenses Insurance collected		972	
Insurance collected	•••••	130	
Tales, and assessments on real estate		103	35
Advances on real estate loans, taxes	• • • • • • • • • • • • • • • • • • • •	258	41
Suspense items disbursed	• • • • • • • • • • • • • • • • • • • •	2,733	91
Cash On hand June 30, 1916		12,806	02
Total disbursements	•••••	\$155,994	94
ASSETS			
Real estate loans outstanding		\$158,361	15
Advances on real estate loans.		328	
Stock loans outstanding	*************	6,894	
Real estate  Interest due on losse (unneid)	****************	955	
Interest due on loans (unpaid)	***************************************	818	
Cash On hand June 30, 1916	•••••	12,806	
Total assets	_	\$180,164	26

#### LIABILITIES 2.522 shares "A" stock..... \$87,278 54 813 shares "D" stock...... 81,300 00 Notes and bonds 3,500 00 1.525 00 Contingent fund Interest accrued on notes and bonds..... 90 08 6.520 64 Undivided profit ...... Savings and Loan Association, of Beilingham, Washington. JOHN McCUSH. President. ROLAND G. GAMWELL. Secretary. Amount of authorized capital......\$2,000,000 00 \$100 00 Par value of each share of stock at date of this report..... 15 Number of shares sold during the year..... Number of shares cancelled and withdrawn during the year..... None 4.071 Number of shares in force at close of year..... RECEIPTS Installments on stock..... \$3,649 19 995 04 Interest ..... Tax certificates ..... 822 19 2,573 49 15 00 Expense refunded ..... 35 56 Bank balance ..... Total receipts ...... \$7,268 28 DISBURSEMENTS Withdrawals, payments on stock..... \$3,338 40 Dividends ..... 849 45 1.174 06 LORDS Tax certificates ....... 582 52 Contingent fund ..... 30 25 405 50 Expense ..... 8 00 Discount ..... 880 10 Bank balance ...... Total disbursements ..... \$7,268 28 ASSETS \$16,437 04 Loans ..... 2 00 Stationery and printing..... 12 00 Organization .....

Bank balance .....

880 10 \$17,831 14

LIABILITIES	
Deposits Undivided profits Contingent fund	\$16,968 84 265 52 96 78
Total liabilities	\$17,831 14
Scardinavian American Savings and Loan Association, of Washington.	
JOHN NORMAN, President. J. C. HEDBERG,	-
Amount of authorized capital	\$100 00 529
RECEIPTS	
Membership fee Dues	\$908 00 275 50
Total receipts	\$1,178 50
DISBURSEMENTS	
Balance June 80, 1916	\$729 10 449 40
Total disbursements	\$1,178 50
ASSETS	
Balance in treasury	\$449 40
LIABILITIES	
Due stockholders  Membership fee account.	\$275 50 178 90
Total liabilities	\$449 40
Scattle Savings and Loan Association, of Scattle, Was  L. H. KIRKPATRICK, President. EDWIN S. EVES,  Amount of authorised capital	Secretary. 2,000,000 00 \$100 00 1,151 None
Number of shares in force at close of year	1,151

BECEIPTS		
Receipts from sale of shares apportioned to loan fund		
Payments on loans		00
Earnings for Association		03 86
Due to expense fund	40	
Total receipts	\$1,258	89
DISBURSEMENTS		
Real estate loans	\$600	00
Total disbursements	\$600	00
Assets		
Real estate loans	\$600	00
Cash on hand and in bank	658	
Total assets	\$1,258	89
LIABILITIES		
Due stockholders	\$1,258	89
Security Savings and Loan Society, of Aberdeen, Was ANDREW REID, President. FRANK G. JONES,	•	•
Amount of authorized capital	2,000,000	
Par value of each share of stock at date of this report		
Number of shares sold during the year  Number of shares cancelled and withdrawn during the year		76
Number of shares in force at close of year		76
RECEIPTS		
Receipts from payments on stock	\$490	50
Total receipts	\$490	<b>50</b>
DISBURSEMENTS		
Secretary of state, incorporation fees	\$35	00
Mr. Holden, organizer	187	
Trip to Olympia, Jones and Reid	10	
Building and Loan News	2	
Savings and Loan Manual	3 26	
Pass books, Welsh-Richards	24	
Application blanks and advertising, G. H. Pub. Co	68	
Certificate, Quick Print Co		KΛ
	22	
Letter window, Aberdeen Paint Co	22 ( 9 ( 22 (	00

Building, Loan and Savings Associations	31
For seal and books, Benson Supply Co	\$4 05
For postage	1 29 7 50
Total disbursements	\$869 59
assets	
<u></u>	\$120 91
Total assets	\$120 91
LIABILITIES	
ability to shareholders	\$120 91
Total liabilities	\$120 91
Skagit County Savings and Loan Association, of Anaco	rtes,
Washington.	
E. C. KAUNE, President. W. H. McCALLUM, 8 Amount of authorised capital	
Par Value of each share of stock at date of this report	\$100 OC
Number of shares sold during the year	852
	<b>37</b>
Number of shares in force at close of year	None 852
Number of shares in force at close of year  RECEIPTS	
RECEIPTS	
RECEIPTS Receipts from sale of stock	852
RECEIPTS  Receipts from sale of stock	\$1,047 18
RECEIPTS  RECEIPTS  RECEIPTS  Beceipts from sale of stock	\$1,047 18
RECEIPTS  Receipts from sale of stock	\$1,047 18 \$1,047 18 \$3,047 18
RECEIPTS  Receipts from sale of stock	\$1,047 18 \$1,047 18 \$1,047 18 \$800 00 610 00 187 18
RECEIPTS  RECEIPTS  RECEIPTS  Beceipts from sale of stock	\$1,047 18 \$1,047 18 \$1,047 18 \$800 00 610 00 187 18
RECEIPTS  RECEIPTS  RECEIPTS  Receipts from sale of stock	\$1,047 18 \$1,047 18 \$1,047 18 \$800 00 610 00 187 18
RECEIPTS  Receipts from sale of stock.  Total receipts  DISBURSEMENTS  Real estate loan.  Promotion expense (membership fee).  Cash on hand June 30, 1916.  Total disbursements  ASSETS	\$1,047 18 \$1,047 18 \$1,047 18 \$800 00 610 00 187 18
RECEIPTS  RECEIPTS  RECEIPTS  Receipts from sale of stock	\$1,047 18 \$1,047 18 \$300 00 610 00 187 18 \$1,047 18 \$300 00 187 18
Total receipts  DISBURSEMENTS  Beal estate loan.  Promotion expense (membership fee).  Cash on hand June 30, 1916.  Total disbursements  ASSETS  Loans, Feal estate.  Cash on hand.	\$1,047 18 \$1,047 18 \$300 00 610 00 187 18 \$1,047 18 \$300 00 187 18
RECEIPTS  Receipts from sale of stock.  Total receipts  DISBURSEMENTS  Real estate loan.  Promotion expense (membership fee).  Cash on hand June 30, 1916.  Total disbursements  ASSETS  Loans, real estate.  Cash on hand.  Total assets  LIABILITIES	\$1,047 18 \$1,047 18 \$1,047 18 \$800 00 610 00 187 18 \$1,047 18 \$300 00 187 18
RECEIPTS  Receipts from sale of stock.  Total receipts  DISBURSEMENTS  Real estate loan.  Promotion expense (membership fee).  Cash on hand June 30, 1916.  Total disbursements  ASSETS  Loans, real estate.  Cash on hand.	\$1,047 18 \$1,047 18 \$300 00 610 00 187 18 \$1,047 18 \$300 00 187 18

Spokane Savings and Loan Society,	of Spokane, Was	hington.
E. D. OLMSTED, President.	J. L. COOPER	Secretary.
Amount of authorized capital		<b>\$</b> 2,000,000,00
Par value of each share of stock at date of the		\$100 00
Number of shares sold during the year		5.018.5
Number of shares cancelled and withdrawn du		3,402,3
Number of shares in force at close of year	•	7.211.2
Transfer of practice in force as along of feature		•,
RECEIPTS		
Real estate loans		\$111,466 42
Stock loans		4,607 17
Class "A" stock		1,068 82
Unmatured stock		15.516 66
Pass book matured stock		484,523 65
Time certificate stock		750 00
Real estate		382 50
Real estate contracts		52 50
Interest		45,052 84
Bills pavable		5,000 00
Sundries		136 00
Rent		1.349 04
Furniture and equipment		75 00
Advances on loans		4,080 19
Loan expenses		1,745 30
Cash on hand July 1, 1915		10,160 51
Total receipts		\$685,961 65
		<b>4</b>
DISBURSEMEN	TS	
Real estate loans		\$178,266 16
Stock loans		10,143 00
Class "A" stock		2,039 18
Unmatured stock		20,304 85
Pass book matured stock		312,610 05
Time certificate stock		4,883 75
Class "D" stock		300 00
Matured stock		100 00
Real estate		56,454 83
Interest		283 53
Dividends on stock		82,034 18
Bills payable		30,000 00
Sundries		71 35
Furniture and equipment	• • • • • • • • • • • • • • • • • • • •	508 65

Advances on loans.....

Loan expenses .....

Withdrawal certificates .....

Cash on hand June 30, 1916.....

Total disbursements ...... \$685,961 65

6,298 10

1,845 70

20,161 93

22 50 9,639 **89** 

	_
ABSETS	
Interest receivable	\$12,800 00
Furniture and equipment	
Real estate loans	•
Stock loans	
Office building and other real estate	•
Real estate contracts	
Cash	
Loan expenses	
Total assets	\$811,941 44
LIABILITIES	
Loan expense	\$113 50
Mortgages payable	87,000 00
mcomplete loans	27.057 46
cadivided profits	18,046 96
wastas	8.600 00
Savings stock	721,123 52
Total liabilities	\$811.941 44
State Building and Loan Association, of Tacoma, W	
L. E. PASKILL, President. GEO. RUSSEI	LL, Secretary.
L. E. PASKILL, President. GEO. RUSSEI	LL, Secretary.
L. E. PASKILL, President. GEO. RUSSEI  Amount of authorized capital.	LL, Secretary.
L. E. PASKILL, President. GEO. RUSSEI  Amount of authorized capital.  Par value of each share of stock at date of this report.  Number of shares sold during the year.  Number of shares sold during the year.	LL, Secretary\$8,000,000 00 \$100 00 18,293
L. E. PASKILL, President. GEO. RUSSEI  Amount of authorized capital.  Par value of each share of stock at date of this report.  Number of shares sold during the year.  Number of shares sold during the year.	LL, Secretary\$8,000,000 00 \$100 00 18,293
L. E. PASKILL, President. GEO. RUSSEI  Amount of authorized capital.  Par value of each share of stock at date of this report  Number of each share of stock at date of this report	LL, Secretary\$8,000,000 00 \$100 00 18,293
L. E. PASKILL, President. GEO. RUSSEI  Amount of authorized capital	LL, Secretary\$8,000,000 00 \$100 00 18,293 1,842 38,677
Amount of authorized capital.  Par value of each share of stock at date of this report.  Number of shares sold during the year.  Number of shares cancelled and withdrawn during the year.  Number of shares in force at close of year.  RECEIPTS  Cash on hand July 1, 1915.	LL, Secretary\$8,000,000 00 \$100 00 18,293 1,842 38,677
L. E. PASKILL, President. GEO. RUSSEI  Amount of authorized capital	LL, Secretary\$8,000,000 00 \$100 00 18,293 1,842 38,677
Amount of authorized capital.  Par value of each share of stock at date of this report.  Number of shares sold during the year.  Number of shares cancelled and withdrawn during the year.  Number of shares in force at close of year.  RECEIPTS  Cash on hand July 1, 1915.	LL, Secretary\$8,000,000 00 \$100 00 18,293 1,842 38,677 \$6,180 84 128,487 99
Amount of authorized capital.  Par value of each share of stock at date of this report.  Number of shares sold during the year.  Number of shares cancelled and withdrawn during the year.  Number of shares in force at close of year.  RECEIPTS  Cash on hand July 1, 1915.  Dues  Real estate loans.  Stock loans	LL, Secretary\$8,000,000 00 \$100 00 18,293 1,842 38,677  \$6,180 84 128,487 99 26,827 31 737 50
L. E. PASKILL, President. GEO. RUSSEI  Amount of authorized capital.  Par value of each share of stock at date of this report.  Number of shares sold during the year.  Number of shares cancelled and withdrawn during the year.  Number of shares in force at close of year.  RECEIPTS  Cash on hand July 1, 1915.  Dues  Real estate loans.  Stock loans  Interest on loans.	LL, Secretary\$8,000,000 00 \$100 00 18,293 1,842 38,677  \$6,180 84 128,487 99 26,827 31 737 50 10,484 82
L. E. PASKILL, President. GEO. RUSSEI  Amount of authorized capital.  Par value of each share of stock at date of this report.  Number of shares sold during the year.  Number of shares cancelled and withdrawn during the year.  Number of shares in force at close of year.  RECEIPTS  Cash on hand July 1, 1915.  Dues  Beal estate loans.  Stock loans  Interest on loans.  Bills payable	LL, Secretary\$8,000,000 00 \$100 00 18,293 1,842 38,677  \$6,180 84 128,487 99 26,827 31 737 50 10,484 82 2,000 00
L. E. PASKILL, President. GEO. RUSSEI  Amount of authorized capital.  Par value of each share of stock at date of this report.  Number of shares sold during the year.  Number of shares cancelled and withdrawn during the year.  Number of shares in force at close of year.  RECEIPTS  Cash on hand July 1, 1915.  Dues  Real estate loans.  Stock loans  Interest on loans.  Bills payable  Expense rebate	LL, Secretary\$8,000,000 00 \$100 00 18,293 1,842 38,677  \$6,180 84 128,487 99 26,827 31 737 50 10,484 82 2,000 00 6,430 84
L. E. PASKILL, President. GEO. RUSSEI  Amount of authorized capital.  Par value of each share of stock at date of this report.  Number of shares sold during the year.  Number of shares cancelled and withdrawn during the year.  Number of shares in force at close of year.  RECEIPTS  Cash on hand July 1, 1915.  Dues  Recal estate loans.  Bills payable  Expense rebate  Recal estate   LL, Secretary\$8,000,000 00 \$100 00 18,293 1,842 38,677  \$6,180 84 128,487 99 26,827 31 737 50 10,484 82 2,000 00 6,430 84 567 58	
L. E. PASKILL, President. GEO. RUSSEI  Amount of authorized capital.  Par value of each share of stock at date of this report.  Number of shares sold during the year.  Number of shares cancelled and withdrawn during the year.  Number of shares in force at close of year.  RECEIPTS  Cash on hand July 1, 1915.  Beal estate loans.  Bills payable  Expense rebate  Exchange checks  Real estate rent.	LL, Secretary\$8,000,000 00 \$100 00 18,293 1,842 38,677  \$6,180 84 128,487 99 26,827 31 737 50 10,484 82 2,000 00 6,430 84 567 58
L. E. PASKILL, President. GEO. RUSSEI  Amount of authorized capital.  Par value of each share of stock at date of this report.  Number of shares sold during the year.  Number of shares cancelled and withdrawn during the year.  Number of shares in force at close of year.  RECEIPTS  Cash on hand July 1, 1915.  Dues  Beal estate loans.  Stock loans  Interest on loans.  Bills payable  Expense rebate  Exchange checks  Real estate rent.  Accounts receivable	LL, Secretary\$8,000,000 00 \$100 00 \$100 00 18,293 1,842 38,677  \$6,180 84 128,487 99 26,827 31 737 50 10,484 82 2,000 00 6,430 84 567 58 176 00 80 00
L. E. PASKILL, President. GEO. RUSSEI  Amount of authorized capital.  Par value of each share of stock at date of this report.  Number of shares sold during the year.  Number of shares cancelled and withdrawn during the year.  Number of shares in force at close of year.  RECEIPTS  Cash on hand July 1, 1915.  Dues  Beal estate loans.  Stock loans  Interest on loans.  Bills payable  Expense rebate  Exchange checks  Real estate rent.  Accounts receivable	LL, Secretary\$8,000,000 00 \$100 00 \$100 00 18,293 1,842 38,677  \$6,180 84 128,487 99 26,827 31 737 50 10,484 82 2,000 00 6,430 84 567 58 176 00 80 00 672 68

#### DISBURSEMENTS \$136,458 19 Real estate loans..... Stock loans ........... 4,216 65 5,000 00 Bills payable ..... 6.017 05 Operating expenses ...... Collection commissions ..... 896 89 Interest on bills payable..... 35 00 Furniture and fixtures..... 1.892 31 Withdrawals ..... 19,701 48 Dividends on fully paid shares..... 2.948 15 567 58 Exchange checks ..... Advanced taxes and insurance..... 329 33 185 30 Accounts receivable ...... Suspense 292 08 Real estate ..... 276 50 General ...... 261 72 Cash on hand June 30, 1916..... 3,912 56 Total disbursements ...... \$182,991 12 ASSETS Real estate loans..... \$189,678 26 Real estate ..... 2,857 81 Advanced taxes and insurance..... 353 84 Stock loans ..... 8,890 35 4.381 27 Furniture and fixtures..... 2,602 86 36 98 Accounts receivable ...... 546 09 Cash on hand June 30, 1916..... 3.912 56 Total assets ...... \$207,760 02 LIABILITIES Liability to shareholders \$199 280 44

Discourty to sustandiscretion	. \$100,200	77
Contingent fund	. 732	81
Uncompleted loans	. 276	15
Undivided profits	. 7,520	62
Total lightlities	\$207 780	ΛO

### Tacoma Savings and Loan Association, of Tacoma, Washington.

ALFRED LISTER, President.	WM. P. HOPPING, Secretary.
Amount of authorized capital	
Par value of each share of stock at date of t	
Number of shares sold during the year	
Number of shares cancelled and withdrawn di	
Number of shares in force at close of year	

RECEIPTS		
Cash on hand June 30, 1915	\$12,083	28
Dues	89,945	
Interest	50,380	89
Entrance fees	478	50
Pines	928	
Payments on real estate loans	64,67 <b>6</b>	
Payments on real estate contracts	433	
Payments on real estate	867	
Payments on stock loans	20,160	
Accrued interest Transfer fees	130	
Bills payable	12.000	80
Bonds	38,500	-
	30,000	
Total receipts	<b>\$2</b> 85,121	51
DISBURSEMENTS		
Matured stock—366 shares Series "R"	\$38,228	70
Matured stock—160 shares Series "S"	17,070	-
Matured stock—102 shares Series """	10,262	
matured stock-170 shares Series "II"	17,000	
" ICIICITA wels	35,637	
	75.815	
	17,679	00
	858	47
	156	10
CT CT TOPE	473	50
	4,201	
	234	
Box a con conds and bills payable	5,252	
Buis payable	32,800	
Cash on hand June 30, 1916	12,000	
name sume ov, 1610	17,956	71
Total disbursements	\$285,121	51
ASSETS		
Loaned on real estate	\$490,108	76
Real estate Real estate	14,945	
Real estate contracts.	5,717	
Loaned on stock. Office Intrinse and dytroice	28,676	
Office furniture and fixtures.	1,094	15
Unearried discounts	29	24
Dues Interest and fines	6,384	50
Interest and fines. Cash On hand June 30, 1016	9,587	
Cash on hand June 30, 1916.	17,956	71
Total assets	\$574,499	34
LIABILITIES		
Paid on dues, 14,935 shares of stock	\$348,060	00
Advance dues Advance interest	2,507	
Advance interest Bonds Optitanding		48
Bonds outstanding	85,400	

Interest on bonds, June 30, 1916	
Incomplete loans	
Contingent fund	
Profits apportioned	. 125,782 25
Total liabilities	. \$574,499 34
United States Savings and Loan Society, of Tacoma, W	_
E. J. WALSH, President. J. G. MARCI	
Amount of authorized capital	
Par value of each share of stock at date of this report	
Number of shares sold during the year	
Number of shares cancelled and withdrawn during the year	
Number of shares in force at close of year	. 912
RECEIPTS	
Cash on hand	
Stock, installment	. 125 00
tock, fully paid	. 1,400 00
oans	
nterest	
fembership fees	
oan expense	
Advanced by secretary	. 11 74
Total receipts	\$2,266 50
DISBURSEMENTS	
teal estate loans	\$1,700 00
fembership fees	
oan expense	16 25
Total disbursements	\$2,266 50
ASSETS	
oans	\$1,690 91
Total assets	\$1,690 91
LIABILITIES	
tock	
ndivided profits	9 17
•	
dvance by secretary.	

\$1,690 91

Washington Savings and Loan Assoc	lation, of Seattle, Washington.
BAYMOND R. FRAZIER, President.	H. D. CAMPBELL, Secretary.
Authorized capital	
Par value of shares	
THE PRINCE OF BRIGHTS.	4100 00
	ng.
RECEIPT	rs .
Cash on hand and in banks June 30, 1915	\$320,546 08
Payments on stock	
Interest and exchange	
Real estate loan payments	
Stock loan payments	· •
Bonds and warrants	244,110 52
Total receipts	\$6,134,202 61
DISBURSEM	ents
Real estate loans	
Stock loans	
Withdrawal of stock	
Office furniture and fixtures	
Expense	
Dividends	
Cash on hand and in banks June 30, 1916.	
on the same and in bunks sunc so, 1910.	
Total disbursements	\$6,134,202 61
ASSETS	<b>S</b>
Real estate loans	\$4,686.127 85
Bonds and warrants	
Real estate owned	8,233 82
Real estate sold under contract	33.996 15
Furniture and fixtures	
Accrued interest	
Cash on hand and in banks	569,082 52
Total assets	\$5,755,641 58
•	
LIABILITI	<del></del>
Due members of Association on certificates an	nd pass books\$5.610.511 21
Due borrowers on construction loans	
Reserve and undivided profits fund	181,987 60
	\$5,755,641 58

West Coast Savings and Loan Associa	ation, of Centralia, Washington
T H McCLEARY Prosident	GEO I. RAPNER Semetery
Amount of authorized capital	\$2,000,000 0
Number of shares sold during the year  Number of shares cancelled and withdrawn of	
RECEIPT	8
Deposits on all classes of stock	\$1,027 5
Total receipts	\$1,027 5
DISBURSEMI	ents
Real estate loans	\$300 0
Membership fees, for all expenses	594 0
Cash in bank June 80, 1916	183 5
Total disbursements	\$1,027 5
Number of shares sold during the year         Number of shares cancelled and withdrawn during the year           Number of shares in force at close of year	
First mortgage loan on real estate (made Jun	ne, 1916) \$300 0
Total assets	\$433 5
LIABILITI	ES .
Deposits on all classes of stock, due members	\$483 50
Total liabilities	\$438 50
<del>-</del>	
E. O. KECK, President.	LOGAN H. ROBERTS, Secretary.
Amount of authorized capital	\$2,000,000 00
RECEIPT	3
Total receipts	
	491,000 Ou

DIBBURSEMENTS			-
Advances	DISBURSEMENTS		
Advances	Logne	\$41,887	20
Withdrawals	•		
Dividends   6,886   Expense   1,888   Expense   1,888   Expense   1,888   Exal estate   469   Fixtures   57   570   650   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   600   60			
Expense		•	
Real estate	_		
Fixtures 57 Billis payable 55,500 Interest on bills payable 40 Cash balance June 80, 1916 6,967  Total disbursements \$97,858  ABSETS  Cash on hand June 80, 1916 \$6,967  Liash on hand June 80, 1916 \$6,967  Seal estate loans 140,792 Coans on shares 3,800 divances 5,946 ceal estate 9,000 ceal estate 9,000 ceal estate 9,000 ceal estate sold on contract 4,400 Hils receivable 38 Immiture and flutures 250 cerued interest unpaid 2,000  Total assets \$172,098  LIABILITIES  ABBILITIES  ABBILITIES  ABBILITIES  Capitals carried in suspense 527 Coantingent fund 9,798  Total Habilities \$172,098  Total Habilities \$172,098  Total Habilities \$172,098  Total Habilities \$172,098  Equitable Savings and Loan Association, of Portland, Oregon.  EDWARD COOKINGHAM, Vice President. F. McKERCHER, Secretary mounts of anthorised capital 527 Coantingent fund 50,1916 9,798  Total Habilities \$172,098  Equitable Savings and Loan Association, of Portland, Oregon.  EDWARD COOKINGHAM, Vice President. F. McKERCHER, Secretary mounts of shares sold during the year 29,400  Anniber of shares sold during the year 29,400  Anniber of shares cancelled and withdrawn during the year 15,500  Anniber of shares in force at close of year 97,700  RECEIPTS  Ash On hand June 80, 1915 \$149,741  Vestiment stock 545,990  Capital Capital 54,990  Capital Capital 64,990  Capital Capital 6		•	
Silis payable			
Interest on bills payable			
ABSETS   \$97,858		-,	-
ASSETS  Lash on hand June 30, 1916 \$6,967  Real estate loans 140,792  Joans on shares 3,300  Advances 5,346  Leal estate we 9,000  Leal estate sold on contract 4,409  Line state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the state with the			-
ABSETS  Cash on hand June 30, 1916. \$6,967  Leal estate loans. 140,792  Cans on shares. 3,300  divances 5,346  leal estate . 9,000  dills receivable 2,000  Corrued interest unpaid 2,000  Total assets \$172,098  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  Corrued in suspense 527  Equitable arried in suspense 527  Edivided profits, June 80, 1916. 9,798  Total liabilities \$172,098  Total liabilities \$172,098  Equitable Savings and Loan Association, of Portland, Oregon.  EDWARD COOKINGHAM, Vice President. F. McKERCHER, Secretary mount of authorised capital. \$10,000,000  arr Value of each share of stock at date of this report. \$100  arrowalcompanies of shares sold during the year. 29, 110,000,000  arrowalcompanies of shares and the year 15, 110,000,000  arrowalcompanies of shares and during the year 15, 110,000,000  arrowalcompanies of shares and stock at date of this report. \$100  EDWARD COOKINGHAM, Vice President. F. McKERCHER, Secretary mount of suthorised capital. \$10,000,000  arrowalcompanies of shares and during the year. 29, 110,000,000  arrowalcompanies of shares and during the year. 29, 110,000,000  arrowalcompanies of shares in force at close of year. 97, 110,000,000  RECEIPTS  Sah On hand June 80, 1915. \$149,741  Arrowalcompanies of state (net) 717,808	Casa Dalance June 80, 1916	0,861	_
Cash on hand June 30, 1916. \$6,967  Real estate loans. 140,792  Coans on shares. 3,800  Coans on shares. 5,846  Real estate	Total disbursements	<b>\$9</b> 7,858	8
beal estate loans. 140,792 oans on shares. 3,300 divances. 5,346 leal estate 9,000 leal estate sold on contract. 4,409 lills receivable 33 urniture and fixtures. 250 ccrued interest unpaid. 2,000  Total assets \$172,098  LIABILITIES lability to shareholders. \$155,272 ontingent fund 6,500 entials carried in suspense. 527 andivided profits, June 30, 1916. 9,798  Total liabilities \$172,098  Total liabilities \$172,098  Equitable Savings and Loan Association, of Portland, Oregon. ED WARD COOKINGHAM, Vice President. F. McKERCHER, Secretary mount of authorized capital. \$10,000,000 ar Value of each share of stock at date of this report. \$100 ambeer of shares sold during the year. 29,500 ambeer of shares cancelled and withdrawn during the year. 15,500 ambeer of shares in force at close of year. 97,500  RECEIPTS  RECEIPTS  Sah On hand June 30, 1915. \$149,741  Type and on real estate (net) 717,808	ASSETS		
beal estate loans. 140,792 oans on shares. 3,300 divances. 5,346 leal estate 9,000 leal estate sold on contract. 4,409 lills receivable 33 urniture and fixtures. 250 ccrued interest unpaid. 2,000  Total assets \$172,098  LIABILITIES lability to shareholders. \$155,272 ontingent fund 6,500 entials carried in suspense. 527 andivided profits, June 30, 1916. 9,798  Total liabilities \$172,098  Total liabilities \$172,098  Equitable Savings and Loan Association, of Portland, Oregon. ED WARD COOKINGHAM, Vice President. F. McKERCHER, Secretary mount of authorized capital. \$10,000,000 ar Value of each share of stock at date of this report. \$100 ambeer of shares sold during the year. 29,500 ambeer of shares cancelled and withdrawn during the year. 15,500 ambeer of shares in force at close of year. 97,500  RECEIPTS  RECEIPTS  Sah On hand June 30, 1915. \$149,741  Type and on real estate (net) 717,808	Sash on hand June 80, 1916	\$6.967	0
Cans on shares	cal estate loans.		
deal estate	Oans on shares		
eal estate eal estate sold on contract	dvances		-
Equitable Savings and Loan Association, of Portland, Oregon.  Total liabilities \$172,098  LIABILITIES  ability to shareholders \$155,272  antingent fund \$6,500  antials carried in suspense 527  adivided profits, June 30, 1916 \$172,098  Total liabilities \$172,098  Found of each share of stock at date of this report \$100,000,000  antials carried in suspense \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  antials \$100,000,000  ant	Cal estate	•	
LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABILITIES  LIABI	681 estate sold on contract		
LIABILITIES  LIABILITIES  ability to shareholders. \$155,272  partingent fund \$6,500  Partials carried in suspense \$527  adivided profits, June 30, 1916 \$9,798  Total liabilities \$1172,098  Total liabilities \$1172,098  Equitable Savings and Loan Association, of Portland, Oregon.  ED WARD COOKINGHAM, Vice President. F. McKERCHER, Secretary \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$10,000,000  Total liabilities \$	Ula Pacelveble		
Total assets \$172,098  LIABILITIES  LIABILITIES  Sability to shareholders \$155,272  Partingent fund \$5,500  Entingent fund \$6,500  Partingent fund \$9,798  Total liabilities \$172,098  Total liabilities \$172,098  Total liabilities \$172,098  Equitable Savings and Loan Association, of Portland, Oregon.  ED WARD COOKINGHAM, Vice President. F. McKERCHER, Secretary mount of authorised capital \$10,000,000 are lied of each share of stock at date of this report \$100 are lied of each share of stock at date of this report \$100 are lied of shares sold during the year \$29,40 are lied of shares cancelled and withdrawn during the year \$15,50 are lied of shares in force at close of year \$97,50 are lied on hand June 80, 1915 \$149,741 are stiment stock \$45,990 are paid on real estate (net) \$177,808	Craitmen and Arthres	-	_
LIABILITIES  LIABILITIES  LIABILITIES  Shift y to shareholders	cerued interest unpaid		-
ability to shareholders	-	\$172,098	6
entals carried in suspense			
Equitable Savings and Loan Association, of Portland, Oregon.  Equitable Savings and Loan Association, of Portland, Oregon.  EDWARD COOKINGHAM, Vice President. F. McKERCHER, Secretary mount of authorized capital. \$10,000,000 ar value of each share of stock at date of this report. \$100 ar value of each share of stock at date of this report. \$100 ar value of each share of stock at date of this report. \$100 ar value of shares cancelled and withdrawn during the year. 29,4 amber of shares cancelled and withdrawn during the year. 97,5 are the proof of shares in force at close of year. 97,5 are the paid on hand June 80, 1915. \$149,741 are then the stock 545,990 are paid on real estate (net). 717,808	ability to shareholders	\$155,272	7
Total liabilities \$172,098  Total liabilities \$172,098  Total liabilities \$172,098  Equitable Savings and Loan Association, of Portland, Oregon.  EDWARD COOKINGHAM, Vice President. F. McKERCHER, Secretary mount of authorised capital. \$10,000,000 in the second stress sold during the year. \$100 in the proof shares sold during the year. \$29,000,000 in the proof shares cancelled and withdrawn during the year. \$29,000,000 in the proof shares in force at close of year. \$15,500 in the proof shares in force at close of year. \$15,500 in the proof shares in force at close of year. \$15,500 in the proof shares in force at close of year. \$15,500 in the proof shares in force at close of year. \$15,741 in the proof shares in force at close of year. \$149,741 in the proof shares in force at close of year. \$149,741 in the proof shares in force at close of year. \$149,741 in the proof shares in force at close of year. \$149,741 in the proof shares in force at close of year. \$149,741 in the proof shares in force at close of year. \$149,741 in the proof shares in force at close of year. \$149,741 in the proof shares in force at close of year. \$149,741 in the proof shares in force at close of year. \$149,741 in the proof shares in force at close of year. \$149,741 in the proof shares in force at close of year.			
Total liabilities \$172,098  Total liabilities \$172,098  Equitable Savings and Loan Association, of Portland, Oregon.  EDWARD COOKINGHAM, Vice President. F. McKERCHER, Secretary  MOURT of authorized capital. \$10,000,000  and the roof share of stock at date of this report. \$100  and the roof shares sold during the year. 29,4  and the roof shares cancelled and withdrawn during the year. 15,5  and the roof shares in force at close of year. 97,7  RECEIPTS  RECEIPTS  All On hand June 80, 1915. \$149,741  and paid on real estate (net) 717,808		•	
Total liabilities	divided profits, June 80, 1916		
RECEIPTS  RECEIPTS  RECEIPTS  RECEIPTS  \$10,000,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,000  100,	•	\$172,098	-6
RECEIPTS  RECEIPTS  RECEIPTS  RECEIPTS  \$10,000,000  \$10,000,000  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100  \$100			
ar Value of each share of stock at date of this report. \$10,000,000  unbeer of shares sold during the year. 29,e  unbeer of shares cancelled and withdrawn during the year. 97,e  BECEIPTS  RECEIPTS  \$149,741  The state of the state of this report. \$100  RECEIPTS  \$149,741  \$149,741  \$149,741  \$149,741  \$149,741  \$149,741  \$149,741  \$149,741  \$149,741	EQuitable Savings and Loan Association, of Portland,	Oregon.	
RECEIPTS  RECEIPTS  RECEIPTS  149,741  150,000  RECEIPTS  171,808  171,808	TUID 4 of authorized combot	TANO AAA AT	٠,
RECEIPTS  RECEIPTS  RECEIPTS  149,741  150,000  RECEIPTS  171,808  171,808	The of each show of stock at data of this second	10,000,000	Ú
RECEIPTS  RECEIPTS  3149,741  10 Sales and June 80, 1915	The or each share of stock at date of this report	<b>\$TOO</b>	U
RECEIPTS  RECEIPTS  3149,741  100,00000000000000000000000000000000	the part shares sold during the year		
RECEIPTS  ab On hand June 80, 1915	er of shares cancelled and withdrawn during the year		
paid on real estate (net)	RECEIPTS		
paid on real estate (net)	On hand June 80, 1915	\$149.741	e
1819 Paid Off Total Control (2007)	Vestment stock	545.990	
1819 Paid Off Total Control (2007)	Care Stock	010,000	
The rate and cares surantee	187 paid on real escale (200)		
Test and profits	ter and profits	209,585	

Real estate (reserve fund)	\$41,172	33
Individual and other accounts	964	88
Loans paid on Association shares	53,050	15
	,	
Total receipts\$	1,724,459	48
DISBURSEMENTS		
Loans on real estate	\$894,275	52
Bond account	88,771	30
Loans on Association shares	49.888	47
Investment withdrawals	278.897	73
Interest and dividends	122,240	
Reserve fund real estate	64,625	
Insurance and taxes advanced	15,224	
Furniture and fixtures	286	
Collection and exchange	8,552	
Postage, telegrams and express	1.818	
Rent and office expense.	4,666	
Stationery and printing	•	
	1,814	
Salaries	25,792	
Advertising	582	-
Withdrawal rebates	1,548	
Sundry expenses	2,549	
Individual and other accounts	1,558	
Cash on hand	161,364	77
Total disbursements\$	1,724,459	43
Assets		
Real estate loans\$	3.102.975	00
Bond account	88,771	
Loans on Association stock	93,060	
Real estate (reserve fund)	122,941	
Taxes and insurance advanced	16,871	
Furniture and fixtures	2,087	
Cash on hand	161.364	
Other accounts	136	
_		
Total assets\$	3,588,208	76
LIABILITIES		
Investment fund\$	3.800.441	64
Due on loans closed	11,426	
Maturity dividend fund	59,309	
Reserve fund and surplus	216,359	_
Other accounts	670	
·		_
Total liabilities\$3	,588,208	76

# Pacific States Savings and Loan Company, of San Francisco, California.

JOHN GARWOOD, Vice President. WILLIAM S. PARDY	
Amount of authorized capital	\$1.000.000 00
Par value of each share of stock at date of this report	
Number of shares sold during the year	
Number of shares cancelled and withdrawn during the year	
Number of shares in force at close of year	
remote of shares in force at close of year	0,020
RECEIPTS	
Cock below that would	<b>6</b> FF F60 <b>60</b>
Cash balance last report	\$55,580 89
Received from dues on certificates	178,481 20
Interest received	99,311 76
Premiums received	222 00
Loans repaid—mortgages	386,983 70
Loans repaid—certificates and collaterals	45,162 00
Real estate sold	17,199 35
Rents	<b>5,58</b> 8 <b>68</b>
Advances repaid	13,491 34
Partial repayment on loans	140,321 11
111COID Dieted loans	27,622 07
TODIGS .	101,475 68
Profits on sale of real estate	3,243 95
Total receipts	\$1,074,583 <b>7</b> 8
DISBURSEMENTS	
Loans, flat and definite contract	\$403,963 94
TOTAL CONTRACTOR AND AND AND AND AND AND AND AND AND AND	47 007 00
	. 21,001 00
Dues	230 42
_ ~~ Pensid Cless "C" and profits.	230 42 57 372 45
Dues repaid, Class "C" and profits Paid On single payment and prepaid stock and interest	57,372 45
Paid on all other continues and interest	57,372 45 24,613 20
Paid On all other certificates and interest	57,372 45 24,613 20 105,813 18
Paid on all other certificates and interest.  Salaries Colleges	57,372 45 24,613 20 105,813 18 16,351 00
Paid on all other certificates and interest.  Salaries  Collection fees	57,372 45 24,613 20 105,813 18 16,351 00 2,428 99
Paid on all other certificates and interest.  Salaries  Collection fees  Real	57,372 45 24,613 20 105,813 18 16,351 00 2,428 99 10,020 80
Paid on all other certificates and interest.  Salaries  Collection fees  Current expenses  Real estate taken on foreclosures.	57,372 45 24,613 20 105,813 18 16,351 00 2,428 99 10,020 80 12,693 87
Paid on all other certificates and interest.  Salaries  Collection fees  Current expenses  Real estate taken on foreclosures.  Advances secured	57,372 45 24,613 20 105,813 13 16,351 00 2,428 99 10,020 80 12,693 87 12,847 21
Paid On all other certificates and interest.  Salaries  Collection fees  Current expenses  Real estate taken on foreclosures.  Advances secured  Pront and loss.	57,372 45 24,613 20 105,813 10 16,351 00 2,428 99 10,020 80 12,693 87 12,847 21 6,939 46
Paid on all other certificates and interest.  Salaries Collection fees Current expenses Real estate taken on foreclosures Advances secured Profit and loss. Partial loan repayments.	57,372 45 24,613 20 105,818 18 16,351 00 2,428 99 10,020 80 12,693 87 12,847 21 6,939 46 142,844 74
Paid on all other certificates and interest.  Salaries  Collection fees  Current expenses  Real estate taken on foreclosures  Advances secured  Profit and loss  Partial loan repayments.  Incompleted loans	57,372 45 24,613 20 105,818 18 16,351 00 2,428 99 10,020 80 12,693 87 12,847 21 6,939 46 142,844 74 12,222 86
Paid on all other certificates and interest.  Salaries  Collection fees  Current expenses  Real estate taken on foreclosures.  Advances secured  Profit and loss.  Partial loan repayments.  Incompleted loans  Bonds	57,372 45 24,613 20 105,818 18 16,351 00 2,428 99 10,020 80 12,693 87 12,847 21 6,939 46 142,844 74 12,222 86 108,888 82
Paid on all other certificates and interest.  Salaries  Collection fees  Current expenses  Real estate taken on foreclosures.  Advances secured  Profit and loss.  Partial loan repayments.  Incompleted loans  Bonds  Repairs and insurance premiums on real estate.	57,372 45 24,613 20 105,818 18 16,351 00 2,428 99 10,020 80 12,693 87 12,847 21 6,939 46 142,844 74 12,222 36 108,888 82 1,421 04
Paid on all other certificates and interest.  Salaries Collection fees Current expenses Real estate taken on foreclosures.  Advances secured Profit and loss. Partial loan repayments. Incom pleted loans Rends Repairs and insurance premiums on real estate.  Takes paid	57,372 45 24,613 20 105,818 18 16,351 00 2,428 99 10,020 80 12,693 87 12,847 21 6,939 46 142,844 74 12,222 86 108,888 82 1,421 04 3,036 08
Paid on all other certificates and interest.  Salaries  Collection fees  Current expenses  Real estate taken on foreclosures.  Advances secured  Profit and loss.  Partial loan repayments.  Incom pleted loans  Bonds  Repairs and insurance premiums on real estate.  Takes paid	57,372 45 24,613 20 105,818 18 16,351 00 2,428 99 10,020 80 12,693 87 12,847 21 6,939 46 142,844 74 12,222 86 108,888 82 1,421 04 8,086 08 116 50
Paid on all other certificates and interest.  Salaries  Collection fees  Current expenses  Real estate taken on foreclosures.  Advances secured  Profit and loss.  Partial loan repayments.  Incompleted loans  Bonds	57,372 45 24,613 20 105,818 18 16,351 00 2,428 99 10,020 80 12,693 87 12,847 21 6,939 46 142,844 74 12,222 86 108,888 82 1,421 04 3,036 08
Paid on all other certificates and interest.  Salaries  Collection fees  Current expenses  Real estate taken on foreclosures.  Advances secured  Profit and loss.  Partial loan repayments.  Incom pleted loans  Bonds  Repairs and insurance premiums on real estate.  Takes paid	57,372 45 24,613 20 105,813 18 16,351 00 2,428 99 10,020 80 12,847 21 6,939 46 142,844 74 12,222 86 108,888 82 1,421 04 3,036 08 116 50 104,782 72
Paid on all other certificates and interest.  Salaries  Collection fees  Current expenses  Real estate taken on foreclosures.  Advances secured  Profit and loss.  Partial loan repayments.  Incompleted loans  Bonds  Repairs and insurance premiums on real estate.  Takes paid  Premiums  Cash	57,372 45 24,613 20 105,818 18 16,351 00 2,428 99 10,020 80 12,693 87 12,847 21 6,939 46 142,844 74 12,222 86 108,888 82 1,421 04 8,036 08 116 50 104,782 72
Paid on all other certificates and interest.  Salaries  Collection fees  Current expenses  Real estate taken on foreclosures  Advances secured  Profit and loss  Partial loan repayments.  Incompleted loans  Bonds  Repairs and insurance premiums on real estate  Takes paid  Premiums  Cash  Total disbursements	57,372 45 24,613 20 105,818 18 16,351 00 2,428 99 10,020 80 12,693 87 12,847 21 6,939 46 142,844 74 12,222 86 108,888 82 1,421 04 8,036 08 116 50 104,782 72
Paid on all other certificates and interest.  Salaries  Collection fees  Current expenses  Real estate taken on foreclosures.  Advances secured  Profit and loss.  Partial loan repayments.  Incompleted loans  Bonds  Repairs and insurance premiums on real estate.  Takes paid  Premiums  Cash  Total disbursements  ASSETS	57,372 45 24,613 20 105,813 18 16,351 00 2,428 99 10,020 80 12,893 87 12,847 21 6,939 46 142,844 74 12,222 86 108,888 82 1,421 04 8,036 08 116 50 104,782 72
Paid on all other certificates and interest.  Balaries  Collection fees  Current expenses  Real estate taken on foreclosures.  Advances secured  Profit and loss.  Partial loan repayments.  Incompleted loans  Bonds  Repairs and insurance premiums on real estate.  Takes paid  Premiums  Total disbursements  ASSETS  Canh in bank and office.  Beans on real estate.	57,372 45 24,613 20 105,813 18 16,351 00 2,428 99 10,020 80 12,893 87 12,847 21 6,939 46 142,844 74 12,222 86 108,888 82 1,421 04 8,036 08 116 50 104,782 72
Paid on all other certificates and interest.  Salaries Collection fees Current expenses Real estate taken on foreclosures Advances secured Profit and loss Partial loan repayments. Incompleted loans Bonds Repairs and insurance premiums on real estate. Takes paid Premiums Cash Total disbursements	57,372 45 24,613 20 105,813 18 16,351 00 2,428 99 10,020 80 12,893 87 12,847 21 6,939 46 142,844 74 12,222 86 108,888 82 1,421 04 8,036 08 116 50 104,782 72

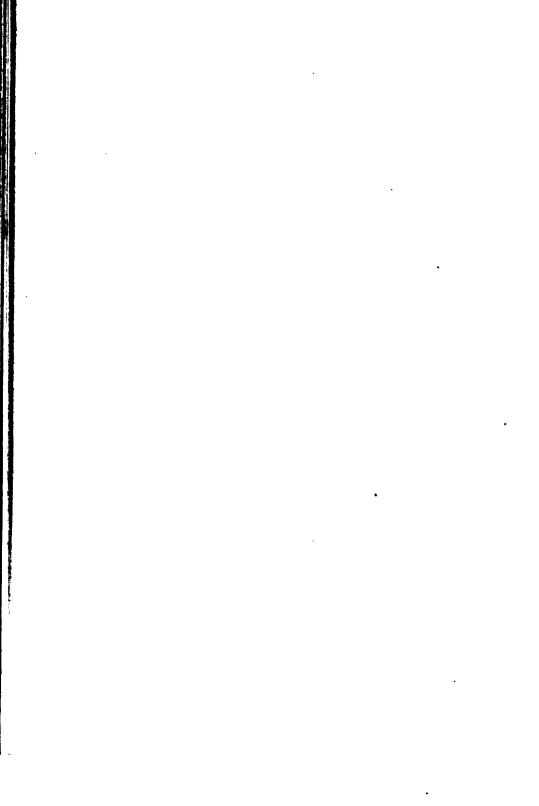
である。 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、 のでは、

Sills receivable	
dvanced for taxes	
ttorney fees	
dvanced for insurance premiums	
emporary accounts	
'urniture and fixtures	
rrears	7,849
Total assets	\$1,521,158
LIA	BILITIES
oues, Class "C" stock and earnings	\$56,372
nvestment certificates and earnings	674,922
repaid and single payment stock and	earnings 300,043
dvance installments	4,771
Partial payments on loans	
due on installment loans	
deserve for taxes	
ontingent fund	
Salance expense account	
emporary accounts	
Individed profits	
Za-11200 prozes 111111111111111111111111111111111111	
Washing Law and Building 6	
<del>-</del>	Company, of Sait Lake City, Utah.
P. W. MADSEN, President.	Dr. JOHN T. WHITE, Secretary
P. W. MADSEN, President.	Dr. JOHN T. WHITE, Secretary \$18,000,000
P. W. MADSEN, President. mount of authorized capital Par value of each share of stock at d	DR. JOHN T. WHITE, Secretary
P. W. MADSEN, President.  amount of authorized capital  ar value of each share of stock at d  umber of shares sold during the yea	DR. JOHN T. WHITE, Secretary \$18,000,000 ate of this report \$100 tr
P. W. MADSEN, President. Amount of authorized capital ar value of each share of stock at disturber of shares sold during the yes fumber of shares cancelled and withd	DR. JOHN T. WHITE, Secretary
P. W. MADSEN, Presidentmount of authorized capital ar value of each share of stock at d tumber of shares sold during the yes tumber of shares cancelled and withd	DR. JOHN T. WHITE, Secretary\$18,000,000 ate of this report\$100 tr
P. W. MADSEN, President.  mount of authorized capital  ar value of each share of stock at d  umber of shares sold during the yes  umber of shares cancelled and withd  umber of shares in force at close of	DR. JOHN T. WHITE, Secretary
P. W. MADSEN, President.  Imount of authorized capital  The value of each share of stock at distributed control of shares sold during the year temper of shares cancelled and withdistributed control of shares in force at close of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con	DR. JOHN T. WHITE, Secretary
P. W. MADSEN, President. Amount of authorized capital ar value of each share of stock at diumber of shares sold during the year aumber of shares cancelled and withdiumber of shares in force at close of  RE ash on hand July 1, 1915	DR. JOHN T. WHITE, Secretary
P. W. MADSEN, Presidentmount of authorized capital 'ar value of each share of stock at d' iumber of shares sold during the yes iumber of shares cancelled and withd' iumber of shares in force at close of  RE ash on hand July 1, 1915	DR. JOHN T. WHITE, Secretary
P. W. MADSEN, Presidentmount of authorized capital 'ar value of each share of stock at diumber of shares sold during the yes tumber of shares cancelled and withdiumber of shares in force at close of  RE ash on hand July 1, 1915	DR. JOHN T. WHITE, Secretary
P. W. MADSEN, President.  Imount of authorized capital	DR. JOHN T. WHITE, Secretary
P. W. MADSEN, President.  Immount of authorized capital	DR. JOHN T. WHITE, Secretary
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Total receipts .....

#### DISBURSEMENTS \$70,930 16 Withdrawal fee (agent's commission).... 12.166 25 "Paid-up" Class "D" stock withdrawn.... 200 00 Stock Withdrawn .... 320,350 35 32,712 78 interest and discount.... 8,309 00 2,018 36 estate loans made..... 729,222 20 Stock loans made..... 37,387 40 Attorney fees (including examination of abstracts)...... 6.080 00 Real estate expenses..... 7.960 32 Costs advanced in foreclosure proceedings..... 11,917 84 Insurance and taxes advanced for borrowers..... 21.607 13 Sundry accounts ..... 128,948 34 Agents' accounts ..... 6.890 33 Exchange ..... 3.924 02 Dividend "Paid-up" Class "D" stock..... 1,447 00 Dividend general fund stock..... 3.600 00 Dividend permanent reserve fund stock..... 15,000 00 Cash on hand June 30, 1916..... 201.288 46 Total disbursements ......\$1.621.949 94 ASSETS Cash on hand and in bank..... \$201,288 46 Loans on real estate.....\$2,535,006 40 1.853,694 79 Loans on general stock..... 60.718 41 Sundry accounts ..... 2.136 22 Insurance and taxes advanced for borrowers..... 7.231 50 Advanced cost and expenses in foreclosure..... 28,597 17 Home office building..... 45,000 00 Real estate other than office building..... 111,038 39 Total assets ......\$2,309,699 94 LIABILITIES Permanent reserve fund capital stock..... \$150,000 00 General fund capital stock..... 75,000 00 "Paid-up" or Class "D" stock..... 32,500 00 Savings stock and advanced payments on stock..... 245,282 08 Sundry accounts ..... 11.376 31 Surplus ..... 13,556 63 Reserve fund real estate..... 111.038 39 Undivided profits (interest for last six months)..... 97.943 02

. Total liabilities .....\$2,309,699 94



#### **PROCEEDINGS**

OF THE

#### **EIGHTH ANNUAL CONVENTION**

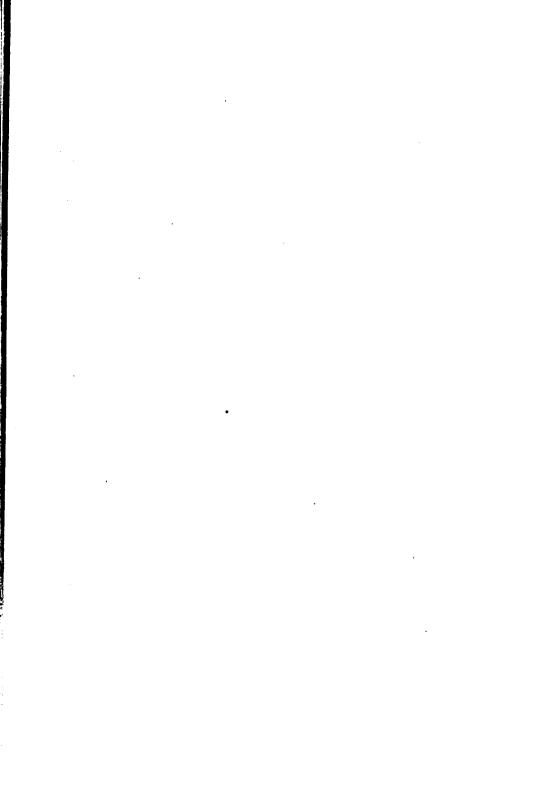
OF THE

Washington State League

OF

## Local Savings and Loan Associations

HELD IN THE
CITY OF TACOMA
October 6, 1916



# Proceedings of the Eighth Annual Convention of the Washington State League of Local Savings and Loan Associations, Held in the City of Tacoma, October 6, 1916.

#### MORNING SESSION, OCTOBER 6, 1916.

The convention was called to order at 10:15 a.m. by President Alfred Lister, who, on behalf of the local associations, extended a cordial welcome to the visiting delegates.

The address of welcome was responded to by R. E. Porter-field of Spokane.

### * SECRETARY'S ANNUAL REPORT. (Raymond R. Frazier.)

There are now in the United States 6,806 Building and Savings and Loan Associations with assets amounting to \$1,484,000,000 and a membership of 3,335,000, an increase in assets during the past year of more than \$125,000,000 or 9.3 per cent, and in membership of 231,000, or more than 7 per cent.

The State of Washington has fluctuated from twenty-first to nineteenth places among all the states and now occupies the twentieth position in respect to aggregate assets. As to increase in assets during the past year, however, she occupies thirteenth place.

#### NATIONAL LEGISLATION.

Your Secretary has, on behalf of the State League, conducted the usual amount of correspondence with our senators and representatives in Congress regarding pending legislation and is pleased to report having had assurances from our representatives that they would assist in procuring exemptions for our associations from the provisions of various emergency tax measures. All local associations are now completely exempted from the exactions of all such laws.

#### STATE OF WASHINGTON.

I am unable to present this year up-to-date statistics on the movement in this state, but we have seen it published in the newspapers from Olympia that there has been a substantial increase, not alone in assets and membership, but in the number of associations.

One close-corporation building and loan association has honorably retired from the field, or is doing so very rapidly, namely, the German of Seattle, and another has been taken over by the state authorities.

#### THE PRESENT LAW.

While the present law has given the state authorities better control over existing institutions and while it is in many respects a good, constructive piece of legislation, it is very apparent to all of you who assisted in passing this legislation that very grave weaknesses exist in the law; that while under it the state authorities have been enabled to rid our commonwealth of a dangerous class of foreign "Get Rich Quick" concerns located principally in Canada and in the extreme southern tier of states, we are facing what may prove to be even a greater menace within our own borders.

#### HISTORY OF STATE LEAGUE.

Eight years ago the State Auditor invited all the associations in the state to send their representatives to meet with him at Olympia for the purpose of organizing a State League. Some of us attended that meeting and have been present at every subsequent meeting of the League. We have met twice in Olympia, Tacoma and Seattle and once in North Yakima and Spokane.

The State Auditor stated when he called us together eight years ago that he had the good of the cause only in mind and expressed the hope that our uniting together would result in mutual benefit, in better legislation and in more uniform methods of operation. He pointed to the fact that no two associations were operating along precisely the same lines.

As a direct result of that first meeting, and after several years of very hard work, of patient conference and serious constructive effort on the part of the majority members of the League represented at that first meeting, the law of 1913 was finally placed upon the statute books.

A few of the associations assumed from the start a hostile attitude toward legislation of any kind. This opposition was confined to those associations operating under the antiquated system known as the "National Building and Loan Association" plan. This group included all of the foreign associations operating in this state, as well as a few of our own state institutions. These associations frowned upon any reform which contemplated a possible infringement upon the agency system of selling building and loan association shares; and I confidently believe that at least one association (which, by the way, never operated as a legitimate, bona fide building and loan association, but rather as a close corporation, charging enormous interest rates and commissions on real estate loans and other charges, such as architect fees, equally excessive and inequitable) cunningly opposed legislation because the officers of the association did not want the closer supervision and the actual state examination which was sure to be provided for in a new law.

But the main objection of the other minority associations was that any legislation would doubtless tend toward the discouragement and the possible elimination of the practices embodied in the old "National Building and Loan Association" idea. The evils of this old system are so well known that they need not be enumerated here. Suffice it to say that I have yet to discover a single authority on financial institutions in this country who does not condemn in severest terms the old "National Building and Loan Association" plan, with its irresponsible agents, its "local boards" or branches, its loaning money everywhere—in foreign states as well as in small villages far removed from the home office in its own state—its "tontine" features, its big membership fees cunningly and painlessly ex-

tracted from the unwary wage earner while he was under the influence of "gas" generated by the hot air of lying, disreputable building and loan stock-selling sharks, who talked about the wonderful stability of building and loan associations and the big dividends that they were able to pay to their shareholders on account of their alleged mutuality, while being under state supervision, etc.

The law of 1913 was finally put into shape and submitted to the legislature. Concessions to existing associations were made so as not to force them to a complete abandonment of their existing methods of operation. The officers and the attorneys of one foreign association became quite excited, and some bold statements bordering on threats were made; but they were finally satisfied on having worked into the law certain provisions regarding membership fees and the so-called guaranty system.

Now what has happened?

I wish to go on record here with the statement that while many of us were strongly opposed to letting the bars down as to membership fees and "tontine" features, I am sure none of us had any conception that we would ever be confronted in this state with the unfortunate condition which now prevails. I say "unfortunate"-it is worse than that, it is scandalous. I have had complaints from scores of business and professional men regarding the misconduct, the misrepresentation of the numerous recently organized savings and loan associations in this state. I am informed that most of these associations have been promoted by a "professional" organizer. This professional has not sought the counsel and advice of the State League nor of any of its officers, for the reason, no doubt, that it has not been desired nor intended that these new associations should operate in keeping with the spirit of the best thought on the subject, to say nothing of the spirit of the law itself. I am told that a number of these associations, without having any assets whatever, have boldly opened up offices in expensive ground-floor locations; and if I have been asked once, I have

sked a hundred times, "How is it possible?" I can think one possible answer to the question, and that is that the of these new companies employ rafts of the old type al Building and Loan selling agents who go to our wage s and, on the strength of official statements that there has been a failure of a legitimate building and loan associathis state, mulct from our people as large an amount y can in each individual case and then proceed to divide oney up as membership fees instead of crediting it as an payment on shares as they have led the new member to would be done. These abuses have already been carried , and the knowledge of them has become so well estabthat it is common talk among business and professional Seattle and among financial writers for various daily eekly publications there, that the situation is a positive e to our business in this state.

say congratulations and Godspeed to those managers of s and loan associations who begin modestly and who into a full and complete explanation of the membership of of all "tontine" features provided for in their by-laws; those men who are getting business on the strength of od reputation of legitimate institutions, who commit the st and most offensive kind of misrepresentation involved practice of not representing the whole truth regarding methods, I say "shame on you," for you are prostituting ness that had its inception in the desire among men to their fellows.

the city of Philadelphia they have more than one thoubuilding and loan associations. The movement has the will and support of everybody. If Tacoma had as many portion, she would have at least sixty associations scatthroughout her various wards. You can scarcely conof this condition. Yesterday we heard a representative state say, "We have enough associations in Washing-He no doubt meant we have enough associations such as they are! And I heartily endorse that sentiment, but isn't it shameful that men are compelled to entertain this feeling?

Now these are merely words; the question is, "What are we going to do about it?" There is only one thing to do and that is for you men who believe in square dealing to buckle on the armor and fight for what you believe in.

The spectacle here yesterday of a state official genuinely interested in the welfare of our association coming to us with recommendations based upon several years of experience, recommending in all good faith that we do certain things to correct the evils of the system now followed by a number of associations, and being turned down by the institutions he sought to help, was positively ludicrous.

#### REPORT OF COMMITTEE ON CREDENTIALS.

The Committee on Credentials reported, showing the following associations to be in good standing and entitled to seats in the convention and a voice in its deliberations:

Interstate Building, Loan and Trust Association, Walla Walla.

Olympia Building and Loan Association, Olympia. Fidelity Savings and Loan Association, Spokane. Citizens Savings and Loan Society, Spokane. Spokane Savings and Loan Society, Spokane. Yakima Savings and Loan Association, North Yakima. Bellingham Savings and Loan Association, Bellingham. Tacoma Savings and Loan Association, Tacoma. Northwest Building and Loan Association, Tacoma. State Building and Loan Association, Tacoma. Washington Savings and Loan Association, Seattle.

Mutual Savings and Loan Association, Seattle.
Puget Sound Savings and Loan Association, Seattle.

The committee also reported that twelve other associations had remitted the sum of five dollars each and applied for membership in the State League, and recommended that in view of the great number of applicants, the applications be referred

Executive Committee for recommendation at the next

e.—This action was later in the day reconsidered and was made and duly carried that the applications be to the Executive Committee with power to act.)

as voted that pending the decision of the Executive ee the five-dollar fee be returned to the respective asso-

#### THE LOAN SITUATION.

subject was to have been discussed by Mr. Roberts of Takima. In his absence, Mr. McWilliams of Spokane discussion. He was followed by Mr. Hopping of Takir. Linden of Seattle and Mr. McDowell of Olympia. Williams stated that the new federal farm loan bank not, in his judgment, materially affect the farm loan in Eastern Washington because of the following react he considered the act cumbersome, and for the further hat it did not operate to relieve farmers in any way. Williams and the other gentlemen who discussed the agreed that it was necessary for our associations to ir rates of interest on city loans in order to meet presitions.

2 o'clock the meeting adjourned.

#### AFTERNOON SESSION.

The meeting was called to order by President Lister at 1:30 p.m.

### SECURITY VS. INTEREST AND DIVIDENDS. (H. H. BLackburn, Tacoma.)

Security is anything that makes money, or an indebtedness, more assured in its payment or more readily recoverable.

Interest is the compensation for the use of money or the forbearance of a debt and becomes part of and incident to the debt.

Dividends are profits to be distributed proportionately.

In considering this topic, Security vs. Interest and Dividends, or the relationship of security to interest and dividends in the business of money loaning, let us keep these definitions in mind.

The object in loaning money is the interest, but, to the end that the interest be assured there must be security for the debt, and anything that influences, adds to or detracts from, the security should not be overlooked or disregarded—note that word "anything" in the definition of security; neither should it be forgotten that interest "becomes part of and incident to the debt" and is, therefore, like the principal, dependent on the security.

To the extent that the security for a loan is lacking, or fails, to that extent the indebtedness can not be collected and profits and dividends are reduced, if, indeed, an actual loss of principal is not suffered.

Since the debt is dependent on the security for its payment and the interest is part of and incident to the debt and profits and dividends are derived from the interest, if profits and dividends there be, it is evident that in this inter-relationship security plays the major role and the lender of money, in order to achieve success in the business, conserve the principal and insure profits and dividends, must be expert at judging security, of what it consists, and the influences affecting it.

ong the things proper to be considered with reference ity for a loan of money are:

to the property, or physical, security.

valuation, how does it compare with other similar prop-

location and environment. Is it in a locality likely to or become worse? Will its surroundings have a tend-increase or depress its value? In this connection the ty of churches, schools, hospitals, factories, stores, ware-depots, cemeteries, parks, railroads, car lines, markets, ding or adjacent special districts, such as the resithe manufacturing, the wholesale, the shopping, the the waterfront, the Chinese and the like, and the view, suggest consideration.

use and adaptability. Is it arranged and equipped for to which it is put or for which it is intended, or can it ily utilized for or adapted to other use or uses?

rental value. Will it rent for a sum sufficient to cover ying charges and the interest on the loan, or will some these have to be made up from other sources?

size and arrangement. Are they usual or out of the y and special?

condition. Is it new and modern or old and antiquated? repair or dilapidated? Is it well kept or neglected? occupancy. Is it occupied by the owner or by a tenant?

maintenance and upkeep. Will the probable cost of a moderate or excessive?

taxes. Are they low or high?

municipal improvements, such as paving, sewers, water. hey been put in and have the special assessments theren paid?

insurance. What is its insurable value and what the premium? What is its fire protection?

opportunity for additions and extensions in the event of ansion of business. Can they be made or will another a have to be found in such event?

As to the borrower:

Is he a resident or a nonresident?

Is he married or unmarried and what is the condition of his domestic affairs?

Is he in business for himself or working for a salary or wages?

Is he experienced in his business or employment or inexperienced?

What competition has he in his business?

What special hazards is he or his business subject to?

What are his habits in business and socially?

Is he economical and saving or prodigal and extravagant?

Is he steady in business or good at holding a job, or is he unsteady, shifting and fickle in his business or employment?

Has he been successful or unsuccessful, and why?

What are his business and family affiliations and connections?

What are his present and prospective expenses and are they reasonable, considering his station in life and business?

What is his present and prospective income and what is its source?

What is his record as to being prompt or slow in the payment of his debts and obligations?

Has he been through bankruptcy?

How is he regarded by the business community and by his neighbors?

Does he appear and talk reasonable and as though he had faith in himself, in his ability and in his undertaking, or does he appear and talk unreasonable and as though doubtful of success?

Is he optimistic or pessimistic?

Many other features proper to consider in connection with the property and the borrower in placing a loan, all affecting the security, either directly or indirectly, could be mentioned, and almost every loan negotiated suggests new ones, but sufficient have been referred to for illustration. ondition of the times; the supply of and demand for ompetition in the loaning business; and prevailing atterest; as, also, the terms and conditions of the conpayment, are other features and circumstances that taken into account in placing loans, as they all bear e among the things that make up security and affect and dividends.

not to be presumed that any security for a loan will ing in and surrounding it all the favorable features, he features affecting the security, in so far as may be considered and a loan should not be made without g sufficient to give to the security a wide margin of the loan.

the rate of interest. A high rate, and especially for and loan association, I deem to be unwise, for two first, if the rate is excessive it fails to attract borso have the best security and competitor associations, in the loaning business, at a lower rate, secure these and best secured loans, while the money of the high-iation lies idle and fails to return interest to its treasividends to its members; second, to the extent that good security are lost by a savings and loan associates of its excessive interest charge, to that extent the in is failing to exercise its function and perform the intemplated by the law under which it is organized.

not wish to be understood as advocating that these ns should cut their interest charges below prevailing well secured straight loans, as that would deter intembers and deprive the associations of needed funds. The interest rate of the associations should be an at for the investor to seek membership and stock; but the opinion that the interest rate should not exceed the straight loan interest rate.

roughly agree with Mr. Linden who, in his splendid t year on "The Borrower" asserted "large dividend payments to depositors and heavy interest charges to borrowers is wrong."

The chief function of the savings and loan association is to supply a form of loan and saving that the average wage earner or small salaried man can handle and thereby become a home owner. It is intended as a sort of economic encouragement club for our most numerous class of people and it is not contemplated that such an association should become the vehicle by which large dividends are conveyed to the affluent as depositing investors.

The man, struggling with poverty and adversity, trying to secure a home for himself and family is encouraged more in his efforts to that end through the assistance of a savings and loan association when he realizes that the major part of his monthly payment is applied on his main debt instead of to the interest charge, and when his payments and dividends enable him to receive his release of mortgage at the end of his term of payments, his joy is in the main fact that the home is He feels that he has earned it, congratulates himself, takes pride in contemplating that his security, the property and himself, have proven good, and little regards the accretion to his savings, by way of dividends, that helped in the process. He paid in to the association for a home, not for dividends. And to discourage such an one or to make it harder for him to achieve such a laudable end by charging an excessive interest, so investing stockholders, who already have homes, may draw down dividends in excess of normal interest on their money appears to me to be perverting the purpose of the savings and loan association, as favoring the strong against the weak, and as detracting from the helpfulness that such associations should exercise.

I would, therefore, advise the savings and loan association to carefully guard its loans with reference to their security, to the end that neither loss of interest or principal may likely occur; but to make its interest rate so fair and reasonable that it will attract and enocurage a deserving class of wage earners

ne builders, meeting proper competition, and be satisa a measurably reduced dividend rate.

so doing the association will be performing its most comle functions and will be doing the most good in the of the community in which it operates.

paper was so complete and convincing that it left no r discussion.

### STATE EXAMINATIONS. (J. L. Cooper, Spokane.)

e examinations of savings and loan societies were not ory until the act of 1913 went into effect. Prior to age of this act, a few societies of the state had volunequested the State Auditor to make examinations, and this request was complied with in each case.

section requiring the State Auditor to make examinaquires the society under examination to give the incomplete access to all books and records of the society vides that the examination must be full and complete. much importance cannot be attached to these examinaa fact, compulsory examination is the teeth of the savl loan association law. The provisions of the law might ct but without some systematic method of insuring the as being complied with, the law itself would be of little

* The state examiner should require all societies to ecord of all charges of this kind (membership fees and ions) as the members are entitled to know the operating and how they are paid.

principal reason, of course, for requiring examinations societies is to insure safety to the depositor who enis savings to our care, but it should not stop with asing the fact that we are in sound financial condition, but lso be a means of helping us to accomplish much in the f uniform methods as the state examiner is in a position first hand the results of the various plans under which

we operate. He should not be merely a bookkeeper to check our accounts, but should be a careful student of the most improved savings and loan methods and from his wide experience gained through his contact with the savings and loan business should advise with the different societies as to how they may best fulfill the purposes for which they are organized.

In forming new societies the examiner can be of great help and should recommend the best plan of operating and should see that bad practices are avoided from the beginning. In this way new societies can be given the advantage of the experience of older societies and consequently avoid many mistakes which most of us have made.

Savings and loan societies receive the most complete examinations of any financial institution in the state; for instance, the inspector will spend from ten days to two weeks making an examination of a society with assets of \$500,000.00 while a national bank examiner with one assistant will examine a bank with ten times the assets in three days.

In the past I believe banks and other financial institutions have looked upon supervision as a necessary evil and have resented any advice or suggestion as a slur on themselves or their institution, but the foundation of the savings and loan business is based on co-operation and we should co-operate with the state examiner for the welfare of our own society and the welfare of all the other societies in the state.

The coming of the state examiner should be looked forward to by the secretary of every society in the state as an opportunity for acquiring the latest in savings and loan methods and publicity schemes.

I think thus far the examinations have resulted in a great deal of good in getting us in closer touch with our state officials and in calling our attention to a great many things which are overlooked from the simple fact that they are constantly before us. I hope to hear some good suggestions today as to how the examinations can be made more valuable not only in safeguarding the savings intrusted to our care, but in extending

work in which we are engaged. I trust we will always the supervision of a man as competent who takes as iselfish interest in our welfare and whose supervision as free from petty technicalities as our present State the Honorable C. W. Clausen.

Cooper's paper was freely discussed. Mr. Leghorn of e Auditor's office raised the question as to whether the amination went far enough, and suggested the advisibile state examiner communicating with delinquent borrowne time of conducting the examination.

ers. Lister and Hopping described in detail the method d by the Tacoma Savings and Loan Association in up on all accounts periodically.

#### UNITED STATES LEAGUE CONVENTION.

W. F. McDowell of Olympia submitted an oral report United States League convention held in St. Louis in 1916. (Verbatim reports of this convention were disby the secretary of the league to the delegates present concluding his report, Mr. McDowell stated that the ts of Mr. George F. Gilmore, the president-elect of the States League, regarding standardization of our assothroughout the country on a plan having the least reduce eleast in the way of fees of any kind and fines, and which persons to start in saving whenever they will and with a mount they have, be endorsed by our state league, ion was duly seconded and unanimously carried, and the y was instructed to convey news of the action to Mr.

#### THE YEAR'S WORK: THE FUTURE.

subject was discussed by Mr. J. F. Leghorn, representte Auditor Clausen. Mr. Leghorn stated that the busithe associations in the state had increased during the ar \$2,000,000, and that 10,000 new members had been He said one association was retiring from business and ew ones had been started. Mr. Leghorn referred to one Seattle association which had been taken charge of by his department, and expressed the hope that they would be able to wind it up without loss. He urged the necessity of larger contingent funds and also urged a greater interest on the part of directors in some of the associations. Mr. Leghorn referred to the legislative conference held in Tacoma yesterday at the call of the State Auditor and expressed disappointment that some of the newly organized associations had not approved of the remedial legislation proposed by the State Auditor.

President Lister announced that automobiles would be in waiting at 5:00 o'clock and that a banquet would be tendered at the Hotel Tacoma at 6:30 o'clock.

#### RESOLUTIONS.

#### REPORT OF COMMITTEE ON RESOLUTIONS.

Your committee recognizes the legitimacy of the use of the membership fee and acknowledges the difficulty of organizing new associations without its use, but deplores any concealment of this fee to prospective members or misrepresentations in any form. Your committee recommends greater care on the part of associations using this plan in supervising the work of their agents and requiring refunds where the limited education of the applicant has resulted in a misunderstanding.

Your committee recommends that a standing committee on publicity be appointed whose duty it shall be to provide the newspapers of the state with information from time to time of the aims and progress of the savings and loan business to the end that the general public become better informed on this subject.

Your committee recommends that a committee be appointed to report at the next convention on the most desirable forms of certificates of membership, fully paid certificates, and passbooks, and recommend the adoption thereof by all associations with the object of harmonizing our plans and simplifying them for the public. Your committee suggests that copies of forms in present use be obtained from all associations for consideration.

Resolved, That the State League of Savings and Loan Associations express to the Hon. C. W. Clausen, state auditor, and to his assistant, J. F. Leghorn, its hearty support of their efforts to keep the savings

and loan business on a high and respectable plane, and its desire to keep the the savings and loan business on a high and respectable plane, and its desire to co-operate with them in any legislation they may deem necessary to protect the public from exploitation and misrepresentation by those using the name of savings and loan associations but evading the spirit and requirements of the law.

Resolved, That the State League of Savings and Loan Associations thank the local associations of Tacoma for their cordial welcome and for the entertainment provided for the delegates during their presence in the city.

Resolved, That the secretary of the State League express to the Tacoma Commercial Club and to the Tacoma Hotel our thanks for the use of their assembly rooms.

Your committee recommends that this convention adopt a resolution or amendment providing for the annual election of a delegate and an alternate delegate, one to attend the convention of the United States League of Savings and Loan Associations and that the treasurer of this State League be authorized to advance \$50.00 per annum to the delegate so elected to assist in defraying his expenses in attending the United States League convention.

Respectfully submitted,

F. S. McWilliams.

C. H. SPRINGER,

R. E. PORTERFIELD.

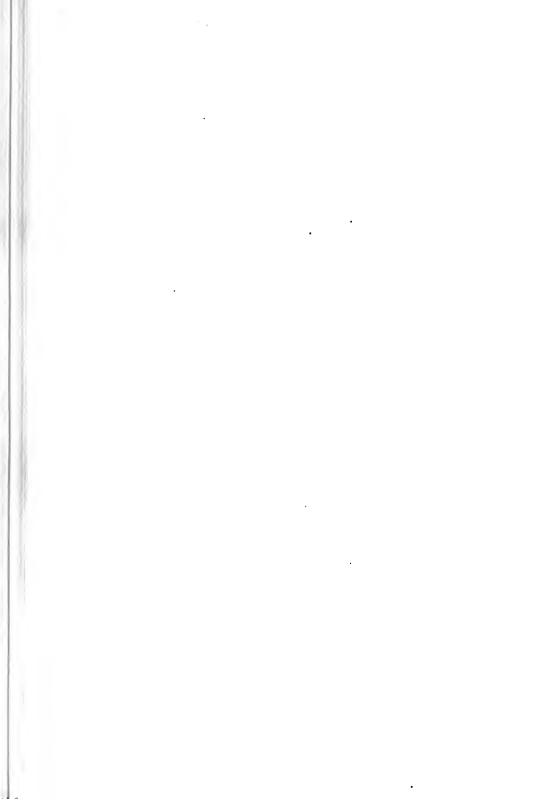
Committee.

#### ELECTION OF OFFICERS.

The following officers were elected for the ensuing year:		
William Thaanum, PresidentSeattle		
F. 8	S. McWilliams, First Vice PresidentSpokane	
Ray	mond R. Frazier, Second Vice PresidentSeattle	
w.	F. McDowell, SecretaryOlympia	
<b>C</b> . 1	L. Roberts, TreasurerTacoma	
	ROSTER.	
	Presidents.	
1909-1910	A. B. WeedNorth Yakima	
1910-1911	E. D. OlmstedSpokane	
1911-1912	Raymond R. FrazierSeattle	
1912-1913	Frank A. ChaseSpokane	
1913-1914	Logan H. RobertsNorth Yakima	
1914-1915	R. E. PorterfieldSpokane	
1915-1916	Alfred ListerTacoma	
	Vice Presidents.	
1909-1910	R. CampbellSeattle	
1910-1911	Raymond R. Frazier, First Vice PresidentSeattle	
1910-1911	Alfred Lister, Second Vice President	
1911-1912	Alfred Lister, First Vice PresidentTacoma	
1911-1912	Logan H. Roberts, Second Vice PresidentNorth Yakima	
1912-1913	Logan H. Roberts, First Vice PresidentNorth Yakima	
1912-1913	Dudley Eshelman, Second Vice PresidentTacoma	
1913-1914	R. E. Porterfield, First Vice PresidentSpokane	
1913-1914	Alfred Lister, Second Vice PresidentTacoma	
1914-1915	Alfred Lister, First Vice President	
1914-1915	W. F. McDowell, Second Vice PresidentOlympia	
1915-1916	William Thaanum, First Vice PresidentSeattle	
1915-1916	W. F. McDowell, Second Vice PresidentOlympia	
Treasurers.		
1909-1910	H. O. ShueySeattle	
1910-1911	H. O. ShueySeattle	
1911-1912	Frank A. ChaseSpokane	
1912-1913	Alfred Lister	
1913-1914	W. F. McDowellOlympia	
1914-1915	Logan H. RobertsNorth Yakima	
1915-1916	C. D. RobinsonSpokane	

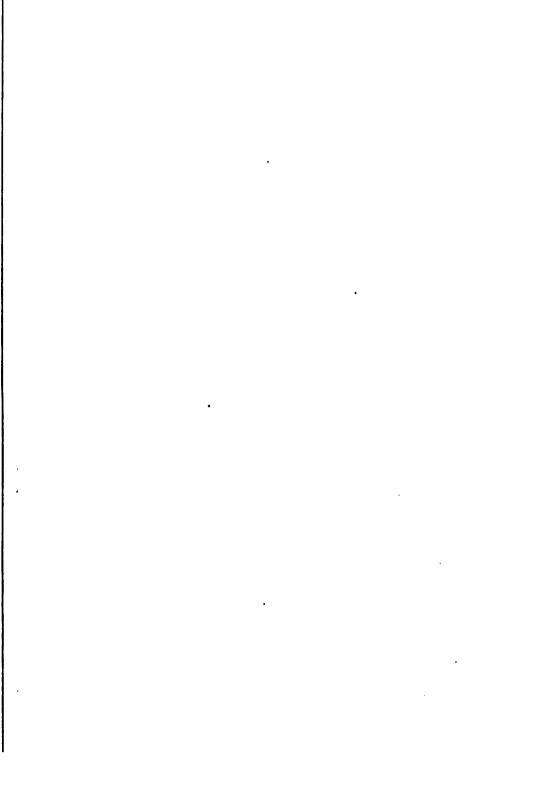
#### Secretaries.

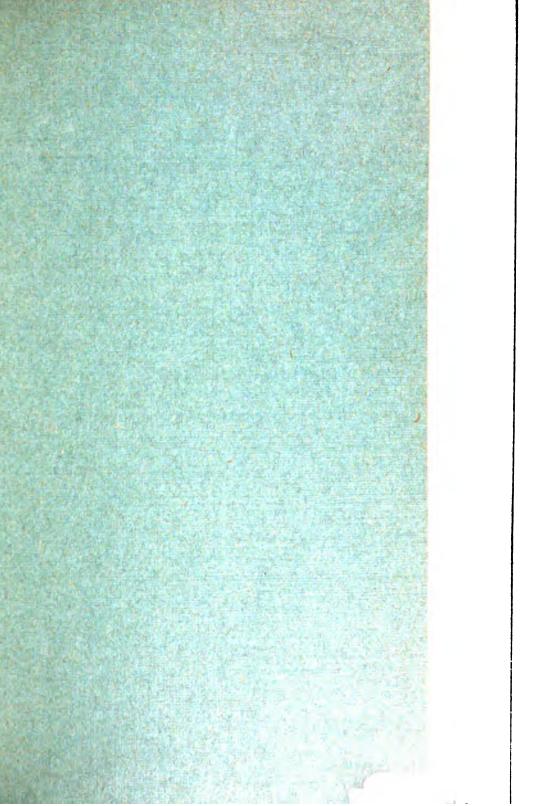
	Dudley Eshelman	
1910-1911	Dudley Eshelman	Tacoma
<b>19</b> 11-1912	Dudley Eshelman	Tacoma
	Raymond R. Frazier	
<b>19</b> 13-1914	Raymond R. Frazier	Seattle
1914-1915	Raymond R. Frazier	Seattle
<b>915-1916</b>	Raymond R. Frazier	Seattle



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#### STATE OF WASHINGTON

### Eighth Biennial Report

OF THE

### State Board of Control

AND

Fifth Biennial Report of the Board of Managers

### Washington State Reformatory

FOR THE

Term Beginning October 1, 1914, and Ending September 30, 1916

TO THE

Governor and Legislature of the State of Washington

Fifteenth Regular Session 1917

OLYMPIA, WASH.

PUBLIC PRINTER FRANK M. LAMBORN

1916

#### LETTER OF TRANSMITTAL.

To His Excellency, the Governor, and the Senate and House of Representatives of the State of Washington.

Gentlemen: Pursuant to the provisions of the law, we have the honor of herewith submitting for your consideration, the Eighth Biennial Report for the two years' period ending September 30, 1916, together with its recommendations for appropriations for the years 1917-1918.

FRANK C. MORSE, Chairman. T. E. SKAGGS.

W. H. COCHBAN.

#### STATE BOARD OF CONTROL.

(Office, State Capitol, Olympia, Washington.)

	· · = · · · · · · · · · · · · · · · · ·
FRANK C. MORSE, Chairman.	T. E. SKAGGS. W. H. COCHRAN.
O. A. TORGERSON, Secretary	
JESSIE M. WATSON, ELIZ.	·
JESSIE WI. WAISUN, EME	ABEIR S. CAMERON, Stenographers.
INS	STITUTIONS.
Western State I	Hospital, Fort Stellacoom.
Dr. W. N. KELLER	Superintendent
DR. FRANK T. WILT	First Assistant Physician
DR. A. C. STEWART	Second Assistant Physician
Dr. W. V. Gulick	Third Assistant Physician
Eastern State	Hospital, Medical Lake.
Dr. A. S. Oliver, Jr	Superintendent
Dr. M. W. Conway	
Dr. J. C. BOYLE	Second Assistant Physician
Northern State	Hospitai, Sedro Woolley.
Dr. J. W. DOUGHTY	Superintendent
	First Assistant Physician
Dr. Joseph Hehir	Second Assistant Physician.
Institution for Fed	ebie Minded, Medical Lake.
S. C. Woodbuff	· · · · · · · · · · · · · · · · · · ·
EDITH M. WOODBUFF	Matron
State Sold	liers' Home, Orting.
Ed. C. WARNER	
Mrs. ALICE B. WARNER	
MARTIN L. BIBB	•
DR. D. A. GOVE	Pnysician
Washington \	/eterans' Home, Retsil.
W. H. WISCOMBE	
Mrs. W. H. Wiscombe	
WALTER L. McCallum	
Dr. J. W. Johnson	Physician
State School f	or the Deaf, Vancouver.
THOS. P. CLARKE	
MARY B. CLARKE	Matron
State School fo	or the Bilnd, Vancouver.

MRS. SADIE E. HALL.....Superintendent

#### State Penitentiary, Walla Walla.

HENRY DRUM	Superintendent
C. A. LEDGERWOOD	Assistant Superintendent
C. F. H. VOLLENDORFF	.State Clerk
F. H. BUTCHER	Secretary Prison Board
B. L. Jones, M.D	Physician
REV. T. J. CANNON	Chaplain

#### State Training School, Chehalis.

GEO. A. SHEAFE	Superintendent
OLNEY CHASE	Assistant Superintendent
O. J. SAVILLE	Parole Officer
DR. J. M. SLEICHER	Physician

#### State Reformatory, Monroe.

DONALD B. OLSON	. Superintendent
CHARLES MILICE	.Secretary
J. M. TADLOCK	Director Education
REV. WILFRED WITHINGTON	.Chaplain
REV. D. P. KELLY	Priest
C. T. Webb	Parole Officer
JAMES C. WILCOX	Captain
H. K. STOCKWELL, M. D	.Physician

#### State School for Girls, Grand Mound.

MISS MARY CAMPBELL..... Superintendent

DR. J. H. WEBSTER..... State Dentist

### OF THE BOARD OF CONTROL.

Chapter 119, Laws of 1901, created the State Board of trol as successor of the Board of Audit and Control, and ed its duties and powers, constituting it the governing, aging and purchasing Board for the six charitable, relatory and penal institutions in existence at that time.

Chapter 121, Laws of 1905, charged the State Board of rol with the transportation of committed convicts, insane incorrigibles.

Chapter 166, Laws of 1907, amended the original Board control law and extended the jurisdiction of the Board to ide the newly created Institution for Feeble Minded. The e Capitol was also placed in the custody of the Board and ision made for visitation to and reports on conditions, needs appropriations for the five state educational institutions, investigation and supervision of their financial and accountsystems.

Chapter 155, Laws of 1907, "Indeterminate Sentence" act, ided that the Board, with the warden (superintendent) of penitentiary, constitute the Prison Board to terminate senes and release all prisoners hereafter confined in the penitary.

Chapter 156, Laws of 1907, provided for the establishment maintenance of a branch of the State Soldiers' Home, under name of the Washington Veterans' Home, and gave the rd power to manage and govern the same.

Chapter 167, Laws of 1907, creating the Washington State ormatory, provided that the Board should select and pure the site, erect temporary buildings and have the business agement of the institution.

Chapter 134, Laws of 1909, provides that one member of State Board of Control be a member of the Board of Mili-Auditors.

Chapter 249, Laws of 1909 (Criminal Code), defines and to the duties of the Board of Control in several particulars.

Chapter 97, Laws of 1909 (School Code), defines the duties of the State Board of Control relating to Institution for Feeble-Minded, School for Deaf, and School for Blind.

Chapter 154, Laws of 1909, provides that the State Board of Control shall certify to the state auditor all local improvement assessments levied against state property occupied by any state institutions.

Chapter 222, Laws of 1909, designates the State Board of Control as part of a commission to acquire a site for the Western Washington Hospital Farm, construct buildings, etc., transfer patients thereto from the Western Washington Hospital for Insane and manage the institution generally. Chapter 44, Laws of 1911, appropriated funds for purchase of additional land and construction of permanent buildings, the institution to be named the Northern Hospital for Insane.

Chapter 132, Laws of 1911, amended the laws relating to purchase of jute and operation of jute mill at the State Penitentiary.

Chapter 38, Laws of 1913, provides that the price at which all grain sacks manufactured at the State Penitentiary shall be offered for sale shall not exceed the estimated cost of the manufacturing thereof plus a profit of  $12\frac{1}{2}$  per cent on said estimated cost. It also provides that the time after which said sacks may be sold in the open market shall be changed from April 1st to June 1st. It further provides that in the event all the sacks assigned to any one county shall not be applied for and sold, the amount not applied for shall be apportioned pro rata to such counties as may have an excess of applications for bags in proportion to the excess.

Chapter 67, Laws of 1913, provides that the chairman of the Board of Control shall be a member of the North Yakima Armory Commission.

Chapter 157, Laws of 1913, provides that there be established an institution to be known as the State School for Girls, and for the appointment of a commission by the Governor to select a site for same. It further provides that the government, control and business management of such school shall be

vested in the State Board of Control. It further provides for the transfer of all girls in the State Training School at Chehalis to the State School for Girls.

Chapter 172, Laws of 1913, authorizes counties and municipalities of the first class to establish and maintain tuberculosis hospitals and provides state aid therefor. It provides that the supervision of institutions operating under this act shall be by and under the State Board of Control.

Chapter 184, Laws of 1918, provides that the State Board of Control shall select a suitable site for a state powder factory and shall have charge of the operation of the same, and the sale of the products thereof; provided, the governor, after investigation made by a commission appointed for the purpose, shall deem it advisable to expend the money appropriated for the construction and operation of such powder factory.

Chapter 114, Laws of 1913, provides that persons confined in the State Penitentiary, not engaged in other work required by the State Board of Control, may be employed upon the construction of public highways within the state.

Chapter 80, Laws of 1915, amended sections 5554-7, 5554-11, 5554-14 of Remington & Ballinger's Annotated Codes and Statutes of Washington by eliminating the inspection and supervision of county tuberculosis hospitals by the State Board of Control.

Chapter 82, Laws of 1915, provided that it shall be the duty of the State Board of Control in co-operation with the United States bureau of immigration, to arrange for deportation of alien insane who are now confined in the state hospitals or that may hereafter be committed, and appropriation of \$75,000.00 was made for this purpose.

Chapter 107, Laws of 1915, amended section 8933 of Remington & Ballinger's Annotated Codes and Statutes of Washington by withdrawing the provision made therein for visitation to and reporting on condition, needs and appropriations for the five state educational institutions and for the investigation and supervision of their financial management and accounting system by the State Board of Control.

### FINANCIAL REPORT.

## EXPENDITURES AND REVERSIONS, OCTOBER 1, 1914, TO APRIL 1, 1915.

Statement Showing Amounts Expended of Appropriations of 1913, from October 1, 1914, to March 31, 1915, and Amounts Reverting to State Treasury, April 1, 1915.

Table No. 1.

INSTITUTIONS AND FUNDS	Expended Oct. 1, 1914, to March 31, 1915	Reverted to State Treasury April 1, 1915
WESTERN STATE HOSPITAL:		
Maintenance	\$133,676 41	\$4,866 80
Laundry machinery	1,564.88	589 19
Dam and reservoir		82
Boiler and stoker	174 30	820 99
Addition to pumping plant		20
Fire escapes		17 50
Furniture and carpetsLibrary		179 70
•		
Totals	\$149,465 96	\$6,475 26
EASTERN STATE HOSPITAL:	1	
Maintenance	\$101,693 77	\$58,443 79
Farm buildings, etc	1,849 88 6,586 87	
Corn cutting machine		12 02
Library	130 38	66 47
Smokestack		2,002 30
Totals	\$110,304 18	\$60,524 58
NORTHERN STATE HOSPITAL:		
Maintenance	\$48,511 73	\$27,011 92
Farm cottages	17,318 56	15
Kitchen, etc	10,750 04 1,400 00	70 49 100 00
•	1,400 00	
, Totals	\$77,980 83	\$27,182 56
INSTITUTION FOR FEEBLE MINDED:		
Maintenance	\$88,382.76	\$19,620 78
Buildings	50,365 40	
Water, sewer, etc	1,080 12	
Totals	\$89,828 28	\$19,620 78
STATE SOLDIERS' HOME:		
Maintenance (State)	\$19,304 64	\$40,878 73
Maintenance (United States)	11,770 62	*19,867 70
Furniture and carpets		
Repairs and improvements	688 41	10 797 50
Water, sewer, etc	750 51	10,537 52 30 10
Library	67 15 9,199 46	1.181 44
•		
Totals	\$42,943 52	\$52,627 90

^{*}Balance not reverting.

## Expenditures and Reversions-Continued.

Maintenance (United States)   22,075 47 49 19,11	INSTITUTIONS AND FUNDS	Expended Oct. 1, 1914, to March 81, 1915	Reverted to State Treasury April 1, 1915
Mainternane (State)   \$19,343 94   \$7.6     Mainternane (United States)   \$22,071 49   *9,10     Repairs and improvements   \$2,426 97     Retains wall   \$3,697 06   \$2     Retains wall   \$47,539 45   \$12,8     Bodler, etc.   \$3,697 06   \$2     Totals   \$47,539 45   \$12,8     STATE SCHOOL FOR DEAF:   \$22,158 11   \$7,7     Maintenance   \$22,158 11   \$7,7     Repairs and improvements   \$23,808 11   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$1,236 71   \$	WASHINGTON VETERANS' HOME:		
Maintenance (United States). 22,071 49 49,11 Repairs and improvements. 2,425 97 5,0 Retaining wall 5,0 Bofler, etc. 3,697 05 2  Totals. \$47,539 45 \$12,8 STATE SCHOOL FOR DEAF:  Maintenance \$22,158 11 \$7,7 11 \$7,7 11 \$2,6 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 71 1 \$1,226 7	Maintenance (State)	\$19,848 94	\$7,638 56
### Totals	Maintenance (United States)	22,071 49 2,426 97	*9,167 49
### STATE SCHOOL FOR DEAF:    Maintenance	Bofler, etc		5,000 00 250 20
Maintenance	Totals	\$47,539 45	\$12,888 98
Maintenance	STATE SCHOOL FOR DEAF:		
Repairs and improvements   1,238 71   1,236 72   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,237 80   1,23	Maintenano	\$22,158 11	\$7,781 81
Library			187 05
Expense to Gallaudet.  Fire escapes 10,0  Totals \$23,698 42 \$18,13  TATE SOFFOOL FOR BLIND:  Maintenance \$9,439 31 \$8,9  Bepairs and improvements 1,239 24  Manual training, etc. \$95 60  Library 187 89  Totals \$11,511 54 \$8,9  STATE PEN ITENTIARY:  Maintenance \$03,897 11 \$43,6  Furniture and carpets 412 41  Library and improvements 1,454 77  Chaplair 600 00 1  Furch and of jute mill 11,125 62 370,00  Furch and of jute 11,125 62 370,00  Furch and carpets \$43,602 55 \$12,66  Totals \$77,544 30 \$438 44  RAINING SCHOOL:  Maintenance \$43,602 55 \$12,66  Repairs and improvements 1,242 45 2,11  Greenhouse 5,962 54 6,00  Totals \$54,413 93 \$22,8  CATE SCHOOL FOR GIRLS:  General \$40,652 14 \$1,11  ASHINGTON STATE REFORMATORY:  Maintenance \$61,687 11 \$13.8	TO BEIG Improvements		136 79
Totals \$23,608 42 \$18,13  TATE SOHOOL FOR BLIND:  Maintenance \$9,439 31 \$8,9  Repairs and improvements 1,295 60  Library 187 89  Totals \$11,811 54 \$8,9  Totals \$11,811 54 \$8,9  STATE PENITENTIABY:  Maintenance \$63,897 11 \$43,6  Furniture and carpets 412 41  Library and improvements 1,454 77  Chaplain 600 00 1  Operating jute mill 11,125 52 370,0  Operating jute mill 11,125 52 370,0  Totals \$77,544 30 \$438 44  RAINING SCHOOL:  Maintenance \$43,602 55 \$12,6  Repairs and improvements 1,242 46 2,1  Greenhouse 5,962 54 6,0  Totals \$54,413 93 \$22,8  CATE SCHOOL FOR GIRLS:  General \$40,652 14 \$1,13  ASHINGTON STATE REFORMATORY:  Maintenance \$40,652 14 \$1,13  ASHINGTON STATE REFORMATORY:		29 80	1 58
Totals \$23,608 42 \$18,13  TATE SOH OOL FOR BLIND:  Maintenance \$9,459 31 \$8,9  Bepairs and improvements 1,292 60  Library 187 89  Totals \$11,811 54 \$8,9  Totals \$11,811 54 \$8,9  STATE PENITENTIABY:  Maintenance \$63,897 11 \$43,66  Furniture and carpets 412 41  Library and improvements 1,454 77  Chaplair 600 00 11  Library 105 mill 11,125 62 370,00  Operating jute mill 11,125 62 370,00  Purchase of jute 24,3  Totals \$77,544 30 \$438 44  RAINING SCHOOL:  Maintenance \$3,006 39 11,9  Repairs and improvements 1,242 46 2,1  Greenhouse 5,962 54 6,00  Totals \$54,413 93 \$22,8  PATE SCHOOL FOR GIRLS:  General \$40,652 14 \$1,10  ASHINGTON STATE REFORMATORY:  Maintenance \$61,887 11 \$13.8	Fire to Gallaudet		24 55
Totals \$23,608 42 \$18,13  TATE SOHOOL FOR BLIND:  Maintenance \$9,439 31 \$8,9  Espairs and improvements 1,299 24  Manual training, etc. \$95 60  Library \$187 89  Totals \$11,811 54 \$8,9  STATE PENITENTIARY:  Maintenance \$93,997 11 \$43,6  Repairs and expets 412 47  Library 54 49  Chaplain 600 00 1  Operating jute mill 11,125 62 370,0  Purchase of jute 24,3  Totals \$77,544 30 \$438 48  RAINING SCHOOL:  Maintenance \$3,006 39 11,9  REPairs and improvements \$3,006 39 12,6  Greenhouse 5,902 54 62,1  Greenhouse 55,902 54 62,1  ASHINGTON STATE REFORMATORY:  Maintenance \$40,652 14 \$1,1  ASHINGTON STATE REFORMATORY:  Maintenance \$61,687 11 \$13.8	- acaps		10,000 00
Sepairs and improvements   1,289 24     Manual training etc.   187 39     Totals   11,811 54   28,9     Totals   11,811 54   28,9     STATE PEN ITENTIABY:	Total	\$23,698 42	\$18,131 78
Sepairs and improvements   1,289 24     Manual training, etc.   1,289 24     Manual training, etc.   1,87 39     Totals   \$11,811 54   \$8,9	TATE SOFT OOL FOR BLIND		
Manual training etc.   1,292 65 60     Ibrary		40 490 91	\$8,960 97
187 39   187 39   187 39   187 39   187 39   187 39   187 39   187 39   187 39   187 39   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   187 30   1	Mepairs and improvements.	1.980 94	86
Totals. \$11,811 54 \$8,90  STATE PENITENTIARY:  Maintenance \$03,897 11 \$43,60  Repairs and carpets \$12,64 77  Library and improvements \$1,454 77  Library \$600 00 1  Operating jute mill \$11,125 52 \$70,0  Purchase of jute \$24,3  Totals \$77,544 30 \$438 48  RAINING SCHOOL:  Maintenance \$43,602 55 \$12,66  ROBULT and equipment \$3,006 39 \$1.9  Repairs and improvements \$1,242 46 \$2.1  Repairs and improvements \$5,902 54 62.0  Totals \$54,413 98 \$22,8  CATE SCHOOL FOR GIRLS:  General \$40,652 14 \$1.1  ASHINGTON STATE REFORMATORY:  Maintenance \$61,687 11 \$13.8	In training etc.		
### STATE PENITENTIABY:    Maintenance		187 89	59
Numiture and earpets	Totals	\$11,811 54	\$8,982 33
Purple transport   \$63,897 11   \$43,60	STATE PEN ITENTIARY.		
Library   Add improvements   1,454 77   54 49   1,454 77   54 49   1,454 77   54 49   1,454 77   600 00   1   1,125 52   270,00   1,125 52   270,00   1,125 52   270,00   1,125 52   270,00   1,125 52   270,00   1,125 52   270,00   1,125 52   270,00   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1,125 52   1		689 907 11	\$43,698 84
Ibrary   and improvements   1,454 77   54 49   60 00   10   60 00   11   60 00   12   60 00   12   60 00   13   60 00   14   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00   60 00	Personal Partners		61.89
Chaplain   654 49   600 00   1   11,125 62   370,00   12   11,125 62   370,00   12   11,125 62   370,00   12   12   12   12   12   12   12		1.454 77	89 87
Purchase of jute mill 11,125 62 370,0 24,3 Totals \$77,544 30 \$438 44	Charles	54 49	33 81
### Cotais			171 48
Totals 24,3  Totals \$77,544 30 \$438 44  RAINING SCHOOL:  Mainternance \$43,602 55 \$12,6  Hospital and equipment 3,606 39 1,9  Repairs and improvements 1,242 46 2,1;  Greenhouse 50,002 54 6,0  Totals \$54,413 98 \$22,8  CATE SCHOOL FOR GIRLS:  General \$40,652 14 \$1,1;  ASHINGTON STATE REFORMATORY:  Maintenance \$61,687 11 \$13.8	Purch jute mill	11,125 52	370,082 30
### Part	of jute		24,367 56
RAINING   SCHOOL:	- Otals		\$438 455 50
Hospital and equipment   \$43,602 55   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60   \$12,60	RAINING		
Totals 5,962 54 6,00  Totals \$54,413 93 \$22,8  PATE SCHOOL FOR GIRLS:  General \$40,652 14 \$1,10  ASHINGTON STATE REFORMATORY:  Maintenance \$61,687 11 \$13.8	Home	943 808 55	\$12,692 08
Totals 5,962 54 6,00  Totals \$54,413 93 \$22,8  PATE SCHOOL FOR GIRLS:  General \$40,652 14 \$1,10  ASHINGTON STATE REFORMATORY:  Maintenance \$61,687 11 \$13.8	Report al and equipment		1.987 09
Totals 5,962 54 6,00  Totals \$54,413 93 \$22,8  PATE SCHOOL FOR GIRLS:  General \$40,652 14 \$1,10  ASHINGTON STATE REFORMATORY:  Maintenance \$61,687 11 \$13.8	Great and improvements		2,138 07
Totals	Dogs		6,033 26
CATE SCHOOL FOR GIRLS:  General \$40,652 14 \$1,16  ASHINGTON STATE REFORMATORY:  Maintenance \$61,687 11 \$13.8	Totals.	\$54,413 98	\$22,850 43
ASHINGTON STATE REFORMATORY: Maintenance \$61.687 11 \$13.8	TATE PO		
ASHINGTON STATE REFORMATORY:  Maintenance 261.687 11 \$13.8	General Tor Girth:	<b></b>	
Maintenance 261.687 11 \$13.8		\$40,652 14	\$1,187 70
	MANUSCH STATE REFORMATORY:		
13,047 05   13,047 05   13,047 05   14,047 05   15,047 05   15,047 05   16,047 05   17,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,047 05   18,0			\$13,824 13
equipment and stock	Paradings and equipment	18,047 05	7 25
	equipment and stock	8,172 94	34
		400 000 CC	\$13,831 72

^{*}Beliance not reverting.

### Expenditures and Reversions—Continued.

INSTITUTIONS AND FUNDS	Expended Oct. 1, 1914, to March 31, 1915	Reverted to State Treasury April 1, 1915
CAPITOL BUILDING AND GROUNDS:		
Maintenance Sidewalks and improvements Repair of shed	981 71	\$599 24 2,878 52 190 00
Totals	\$10,406 44	\$8,667 76
TEMPLE OF JUSTICE:		
Maintenance	\$10,878 98	\$3,929 34
STATE BOARD OF CONTROL:		
Salaries	\$4,500 00	\$822 57
Salaries of employees	2,556 85	2,720 90
Traveling expenses	1,029 89	428 97
Office expenses	1,528 69	494 74
Printing	2,807 77	610 45
Totals	\$12,428 20	\$4,577 63
Transportation of Convicts	\$16,469 98	
Tuberculosis Hospitals	7.858 55	\$86,091 59
State Powder Factory	7 45	49,360 09
Grand totals	\$861,688 75	\$780,365 92

### FINANCIAL REPORT.

## EXPENDITURES AND BALANCES, APRIL 1, 1915, TO SEPTEMBER 30, 1916.

Statement Showing Amounts Appropriated by the Legislature of 1915, Available April 1, 1915, Amounts Expended from April 1, 1915, to September 30, 1916, and Balances on Hand October 1, 1916.

Table No. 2.

INSTITUTIONS AND FUNDS	Appropria- tions	Expended April 1, 1915, to September 30, 1916	Balance October 1, 1916
WESTERN STATE HOSPITAL:			ļ
	8460,000 00	\$296,929 36	\$166,070 64
"WILLETTON and sepnets	1,000 00	488 99	511 01
AIDI AFY	500 00	880 78	119 22
TO LIE TO THE AND IMPROVAMENTS I	000 00		****
etc.	20,000 00	12,862 90	7,137 10
_			
Totals	\$481,500 00	\$307,662 08	\$173,837 97
MASTREN STATE HOSPITAL:			
	eura 000 A	ecen 400 cm	
General Repairs and improvements	\$416,000 00	\$239,406.80	\$176,593.70
Furnitaria and improvements	10,000 00	9,996 04	8 96
Enlarging carpets and bedding	7,000 00 6,000 00	3,646 15 5,997 96	8,358 85 2 04
Boller Complete and in place	8,500 00	8,456 35	43 65
Manual In Prace	0,500 00	8,100 00	100
Minded Institution	2.500 00		2,500 00
	1.000 00	979 30	2,000 70
Purch of land	80,000 00	30,000 00	
Totale.	\$481,000 00	\$298,482 10	\$182,517 90
NOBTHER STATE HOSPITAL:			
Maintena nos, etc.	\$273,000 00	\$163,807 31	\$109,192 69
Two was not buildings.	128,000 00	75,696 11	52,303 89
Audit OF Tum	80,000 00	22,268 72	7,781 25
Farm Laidings	15,000 00	14,999 91	06
	15,000 00	13,905 78	1.094 25
Librator plant	8,000 00	6,486 54	1,513 46
Repair	500 00	497 61	2.30
Repairs and improvement and			
	26,300 00	24,355 27	1,944 78
Totals	\$495,800 00	\$322,017 25	\$173,782 78
Mainton FOR FEEBLE MINDED:			
Maintenance Buildings etc.	**** ***	#100 MA	<b>****</b> *** ***
DD11-3- 4000	\$210,000 00	\$181,710 26	\$78,289 74
Forch Res. etc.	296,000 00	229,344 48	66,655 57
Purchase of land.	16,000 00	16,000 00	
Totals.:	\$522,000 00	\$377,054 69	\$144,945 31
STATE SOLDIERS' HOME AND COLONY:			
Maintenance (State)	\$76,000 00	\$36,129 72	\$39,870 28
Maintenance (State)  Maintenance (U. S.)	66,902 09	46,507 08	20,395 06
	85,000 00	21,316 86	13,683 14
Tax Officer of colony			13,083 14
	900 00		
	200 00 12 000 00	64 20 11.027 06	
Repairs and improvements	200 00 12,000 00	11,027 06	972 94

## Expenditures and Balances—Continued.

INSTITUTIONS AND FUNDS	Appropria- tions	Expended April 1, 1915, to September 30, 1916	Balance October 1, 1916
WASHINGTON VETERANS' HOME:			
Maintenance (State)	\$140,000 00	\$70,281 99	\$69,718 01 11,787 26
Maintenance (State)	58,892 42	47,105 16	11,787 26
Repairs and improvements	21,000 00	20,642 70	357 30
Totals	<b>\$</b> 161,000 00	\$138,029 85	\$81,882 57
STATE SCHOOL FOR DEAF:			
Maintenance	\$94,000 00	\$59,047 87	\$34,952 63
ments	5,500 00	5,496 66	8 84
Traveling expenses to Gallaudet	2,000 00	1,227 90	772 10
Library	200 00	199 59	41
Totals	\$101,700 00	\$65,971 52	\$35,728 48
STATE SCHOOL FOR BLIND:			
Maintenance	\$43,000 00	\$27,927 73	\$15,072 27
Manual training supplies	1,200 00	580 92	619 08
Library	1,000 00	411 81	588 19
Summer school for adults	800 00 1,000 00	798 81 791 99	1 19 206 01
furnishings	75,000 00	59,990 12	15,009 88
Totals	\$122,000 00	\$90,501 88	\$31,498 62
STATE PENITENTIARY:			
Maintenance	\$277,000 00	\$173,565 75	\$103,434 25
Repairs and improvements	10,000 00	7,291 58	2,708 42
Library Salary of chaplain	500 00 2,400 00	355 74 1.700 00	144 26 700 00
Operation of jute mill, etc	275,000 00	127,413 84	147,586 16
Totals	\$564,900 00	\$310,326 91	\$254,573 09
STATE TRAINING SCHOOL:			
Maintenance	\$100,000 00	\$74,006 42	\$25,993 58
Repairs and improvements, etc	7,500 00	7,302 00	198 00
Lumber, seeds, etc	12,000 00	7,599 85	4,400 65
Amusements and athletics	1,000 00	692 18	307 82
Library	500 00	205 77	294 23
Totals	\$121,000 00	\$89,805 72	\$31,194 28
STATE SCHOOL FOR GIRLS:			
Maintenance	<b>\$56,000 00</b>	\$35,268 75	\$20,731 23
One new building and equipment Stock, farm machinery, etc	60,000 00 8,500 00	59,713 08 6,380 16	1,286 92 2,119 84
Library and amusement	500 00	281 11	218 89

## Expenditures and Balances—Continued.

INSTITUTIONS AND FUNDS	Appropr tions	ia-	Expended April 1, 191 to Septemb 30, 1916	5, Balanc	
			-	_	
WASHINGTON STATE REFORMATORY:				İ	
Maintenance	\$219,000	00	\$152,066 0	9 \$66,98	<b>3</b> 91
Farm equipment and stock	7,500		4,339 9	1 3,16	
Storehouse	17,000		12,900 1	7 4,09	
Installation of oil-burning system				2,50	
Completing main building	4,000 4,000		3,815 2 2,265 7		4 78
General repairs and improvements	7,500		7.374 5		5 45
Clearing land			5,099 4		
Waterworks	10,000		258 2		6 75
Sewers	1,500		1,197 1		2 82
Sidewalks	1,000		624 7		5 29
Salary of chaplain			1,800 0		00 00
Library and entertainments	1,100		788 8		1 19
Duplicate lighting system	8,000	00		3,00	0 00
Totals	\$290,500	00	\$192,525 1	0 \$97,97	4 90
CAPITOL BUILDING AND GROUNDS:					
Maintenance	\$30,000	00	\$21,698 8	1 \$8,30	n 19
Repairs and improvements	5,000		2,288 7		
Totals	\$85,000	00	\$23,987 5	8 \$11,01	2 47
STATE BOARD OF CONTROL:					
Salaries of members	\$18,000	00	\$13,250 0	0 \$4,75	a aa
Salaries of employees	10,200		7.345 4		
Traveling expenses	4,800		3,585 3		
Office expenses, postage, etc	3,000		1,598 2		
Printing	7,500	00	2,294 9	0 5,20	5 10
Totals	\$48,500	00	\$28,023 8	7 \$15,47	6 13
TEMPLE OF JUSTICE:					
Maintenance	\$12,000	00	\$7,962 7	0 \$4,03	7 30
Transportation of convicts	\$62.500	<b>^</b>	\$40.096 5	7 \$22.46	9 49
Parole department	\$02,500 25,000		14,039 0		
Parole department Deportation of alien insane	75,000		2,720 5		
Grand totals	<b>40.000.00</b>		\$2,524,834 7	3 \$1,443,55	-

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28222551 4

Table No. 3.

TABLE SHOWING AVERAGE DAILY POPULATION, EXPENSE OF OPERATION, PER CAPITA COST FOR OPER-ATION, AND TOTAL EXPENDITURES FOR ALL PURPOSES FOR THE SEVERAL INSTITUTIONS UNDER THE STATE BOARD OF CONTROL DURING THE BIENNIUM OCTOBER 1, 1914, TO SEPTEMBER 30, 1916.

Total Expenses for All Purposes	446,786 28 406,786 28 406,786 28 899,997 38 889,997 38 889,997 38 899,997 38 897,871 22 897,871 29 89 897,918 897,918 898 999,918	
Expenditure Other Than Maintenance	28, 28, 28, 28, 28, 28, 28, 28, 28, 28,	
Dally Per Capita Cost for Operation	259, 523 .402 .402 .402 .506 .506 .41,276 .506 .41,276 .507 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .438 .4	
Total Net Cost of Operation	\$25, 291 05 836, 088 16 116, 456 11 116, 456 02 1118, 622 01 81, 114, 182 04 223, 000 44 117, 182 07 235, 103 92 215, 183 93 215, 183 94 215, 183 94 215, 183 94	8
Oash Receipts Remitted to State Treasurer	88, 314 73 6,001 89 6,001 89 6,001 89 6,001 89 6,001 89 6,000 89 6,000 89 6,000 89 6,000 89 89 89 89 89 89 89 89 89 89 89 89 89	
Total Expenditures for Operation	\$427,606 77 341,100 07 112,319 04 110,085 08 1113,712 01 118,712 01 118,722 08 287,887 04 287,887 04 287,887 04 287,888 01 287,889 05 287,889 06 287,889 06	D D T T T T T T T T T T T T T T T T T T
Dally Average Population	1,577.17 1,070.62 1,670.62 1,670.62 1,670.62 1,670.62 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,670.63 1,6	10 170
INSTITUTION	Western State Hospital Eastern State Hospital Northern State Hospital Institution for Feeble Minded State Soldiers' Home Washington Veterans' Home State School for Deaf State School for Deaf State Perlentiary State Training School State Echool for Gibs State Echool for Gibs State Reformatory Toylal	Capitol buildings and grounds.  Capitol buildings and grounds.  Fumple of Justice.  Board of Control.  Transportation of convicts, insane, etc.  Parole department.  Deportation of alien insane.  Tuberculosis hospital  Powder factory  Grand Total

* 18 months.

AVERAGE DAILY POPULATION AND AVERAGE DAILY COST PER CAPITA 1900-1916. Table No. 4.

	Western St	Western State Hospital	Eastern St	Eastern State Hospital Northern State Hospite	Northern St	ate Hospital	Institu Feeble	institution for Feeble Minded
BIENNIUM ENDING	Dally Average Population	Daffy Per Capita Cost Maint'nance	Dally Average Population	Daffy Per Capita Cost Maint'nance	Dally Average Population	Daffy Per Capita Cost Maint'nance	Daily Average Population	Dally Per Capita Cost Maint'nance
September 80, 1902. September 80, 1804		.3573	865.50 898.50	4150				
mber 30,		3505	17.697	7.07			100	8
September 30, 1910.		.4160	881.98	4568			156.08	5014
September 30, 1912 (as corrected)	1,380.96	4883	826.45	.5126	2. 28 3. 35 3. 35		198.28 245.38	7065
September 30, 1916		424	1,070.62	987	87.78	940	488.88	.530

1900-1916.
CAPITA
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•
DNA
POPULATION AND
AILY
AVERAGE D

ONLING PHILIPPOIG	State Sold	State Soldiers' Home	Washingto H	Washington Veterans' Home	School fo	School for the Deaf	School for	School for the Blind
DIENNION ENDING	Daily Average Population	Daily Daily Per Average Capita Cost Population Maint nance Population Maint nance	Daily Average Population	Dally Per Capita Cost Maint'nance		Daily Daily Per Average Capita Cost	Daily Average Population	Dally Per Capita Cost Maint'nance
September 30, 1902 September 30, 1904 September 30, 1904 September 30, 1906 September 30, 1910 September 30, 1912 (as corrected) September 30, 1914 September 30, 1914	190.96 204.89 204.89 802.72 865.62 852.41 296.76	.4715 .4776 .4868 .5828 .5748 .5748 .5673	168.08 818.98 500.86	7406 .6168 .618	8.88 8.50 6.50	188.08 7406 81.00 1.226 23.50 1.456 81.89	23.50 39.58 40.27	1.496 1.1486 1.26

Table No. 4—Continued.

AVERAGE DAILY POPULATION AND AVERAGE DAILY COST PER CAPITA 1900-1916.

	Ototo De	1	E 4040	- Carbon	04.00	1 for Otels	04040	100
	orare re	State Femiliary	State Trai	State Training School	State Scho	State School for Girls	orace mer	State Relormatory
BIENNIUM ENDING	Daily Average Population	Daily Daily Per Average Capita Cost Population Maint nance	Daily Average Population	Daily Daily Per Average Capita Cost Population Maint'nance	Dally Average Population	Dally Dally Per Average Capita Cost Population Maint'nance	Daily Average Population	Daily Daily Per Average Capita Cost Population Maint nance
Š,		.3462	168.77	3823				
September 30, 1904		.8248	152.24	_				
September 30, 1906	758.39	.3023	184.38	_				
September 30, 1908	863.28	3865	216.13					
September 30, 1910	831.87	.3912	283.06				152.00	.7162
September 30, 1912 (as corrected)	86.98	.5017	269.70	_			330.80	1929
September 30, 1914		.4382	308.98				868.23	.7306
8		.436	194.16	88	÷ 86.55	.750	412.44	106
				-		_		

to State Training School until was charged Girls moved to Grand Mound December 23, 1914, but their maintenance cost

Table No. 5.

DAILY AVERAGE POPULATION.

INSTITUTIONS	1906-1908	1908-1910	1910-1912	1912-1914	1014-1916
W-A 04-4- W4-1					
Western State Hospital		1,287.66	1,380.96	1,897.54	1,377.17
Eastern State Hospital	542.74	681.90	826,44	939.69	1,070.6
Northern State Hospital			†94.50	254.42	587.78
Institution for Feeble Minded	180.85	158.08	198.28	245.88	438.39
State Soldiers' Home	302.72	365.62	852.41	295.76	310.87
Washington Veterans' Home		127.28	168.08	313.93	500.30
State School for Deaf	*126.93	*186.18	81.00	98.82	99.40
State School for Blind			23.38	39.93	40.27
State Penitentiary	853.28	831.37	685.92	749.63	744.6
State Training School	216.13	233.05	269.79	308.96	194.10
State School for Girls					185.5
State Reformatory		152.00	\$30,80	858.23	412.4
Total daily average					
population	3,226,37	8,978.04	4,411.51	4.997.24	5,811.6

^{*} Includes School for Blind, schools divided April 1, 1909.

Table No. 6.
CENSUS OF STATE INSTITUTIONS SEPTEMBER 30, 1916.

m			INMATES	
INSTITUTIONS		(Families)	Present	Present and Absent
Western State Hospital	128	13	1,326	1,468
Eastern State Hospital	105	2	1,068	1,142
Northern State Hospital		1	660	692
Institution for Feeble Minded		1 1	539	545
State Soldiers' Home		3	262	467
State Soldiers' Colony		[	142	179
Washington Veterans' Home			534	758
State School for Deaf	88		123	136
State School for Blind		2	56	56
State Penitentiary		5	662	796
State Training School			125	503
State School for Girls			98	164
State Reformatory	- 44	6	320	1,540
Totals	619	33	5,915	8,435

[†] Institution opened April 1, 1911.

[:] Average for 18 months commencing April 1, 1915.

#### Table No. 7.

#### MISCELLANEOUS FUND.

Cash Receipts Remitted to State Treasurer for Sale of Products and Discarded Materials.

Western State Hospital	\$2,314	75
Eastern State Hospital		
Northern State Hospital		
Institution for Feeble Minded		
State Soldiers' Home		00
Veterans' Home	277	
State School for Deaf		35
State School for Blind	9	
State Penitentiary	1,372	42
State Training School		
State School for Girls	248	
State Reformatory		• •
	\$11,525	91

#### Table No. 8.

#### FARM AND GARDEN PRODUCTS.

Value of Farm and Garden Products for Biennium 1914-1916.

Western State Hospital         \$100,946         03           Eastern State Hospital         82,134         87           Northern State Hospital         28,082         83           Institution for Feeble Minded         13,678         44           State Solders' Home         15,385         03           Veterans' Home         1,143         11           State School for Deaf         867         57           State School for Blind         280         24           State Penitentiary         29,350         21           State Training School         14,280         48           State School for Girls         3,990         72           State Reformatory         25,295         83			
Eastern State Hospital       82,134 87         Northern State Hospital       28,082 83         Institution for Feeble Minded       13,678 44         State Soldiers' Home       15,385 03         Veterans' Home       1,143 11         State School for Deaf       867 57         State School for Blind       280 24         State Penitentiary       29,350 21         State Training School       14,280 48         State School for Girls       3,990 72         State Reformatory       25,295 83	Western State Hospital	\$100.946	03
Northern State Hospital       28,082 83         Institution for Feeble Minded       13,678 44         State Soldiers' Home       15,385 03         Veterans' Home       887 57         State School for Deaf       887 57         State School for Blind       280 24         State Penitentiary       29,350 21         State Training School       14,280 48         State School for Girls       3,990 72         State Reformatory       25,295 83			
Institution for Feeble Minded       13,678 44         State Soldiers' Home       15,385 03         Veterans' Home       1,143 11         State School for Deaf       867 57         State School for Blind       280 24         State Penitentiary       29,350 21         State Training School       14,280 48         State School for Girls       3,990 72         State Reformatory       25,295 83	Northern State Hospital	28.082	83
State Soldiers' Home       15,385 03         Veterans' Home       1,143 11         State School for Deaf       867 57         State School for Blind       280 24         State Penitentiary       29,350 21         State Training School       14,280 48         State School for Girls       3,990 72         State Reformatory       25,295 83	Institution for Feeble Minded		
Veterans' Home       1,143       11         State School for Deaf       867       57         State School for Blind       280       24         State Penitentiary       29,350       21         State Training School       14,280       48         State School for Girls       3,990       72         State Reformatory       25,295       83	State Soldiers' Home		
State School for Deaf         867 57           State School for Blind         280 24           State Penitentiary         29,350 21           State Training School         14,280 48           State School for Girls         3,990 72           State Reformatory         25,295 83			
State School for Blind       280 24         State Penitentiary       29,350 21         State Training School       14,280 48         State School for Girls       3,990 72         State Reformatory       25,295 83			
State Penitentiary         29,350         21           State Training School         14,280         48           State School for Girls         3,990         72           State Reformatory         25,295         83			
State Training School         14,290 48           State School for Girls         3,990 72           State Reformatory         25,295 83			
State School for Girls         3,990 72           State Reformatory         25,295 83			
State Reformatory         25,295 83	State Training School		
M-4-1	State Reformatory	25,295	89
	Total	2915 495	26

A RELATIVE CONTRACT PRICES FOR STAPLE GOODS PURCHASED 1903 TO 1916.

1	Rice, per lb	.0682 .027 .0472 .043 .043 .045 .045
1	Sugar, per ewt	5.05 5.05 5.05 5.05 5.00 5.00 5.00 5.00
$\parallel^-$	Soap, Laundry, per cwt	6 8 0 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	Potatoes, per ton	21.00 19.50 14.25 14.25 16.00 17.00 17.00 14.25 14.25
	Oats, Rolled, per 90-lb	20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120 20120
- 4	Mutton, per cwt	6.95 4.64 7.50 7.50 9.50 9.50 10.14 8.50 10.55 11.55 11.55
]	Lard, per cwt	7.36 6.72 6.72 6.72 9.50 9.50 9.50 11.00 9.50 11.00 11.00
3	Fish, Salmon, per lb	2000 200 200 200 200 200 200 200 200 20
1	Pish, Halibut, Der lb	989999999999999999999999999999999999999
I	Der bbl	6.6.4.6.6.6.4.6.6.4.6.6.6.6.6.6.6.6.6.6
(	Der cwt	11.88 11.88 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.89 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80 11.80
<	Oheese, per lb	144 144 145 145 145 145 145 145 145 145
(	offee, per lb	.09 104 1104 1104 1104 1104 1104 1104 110
-	Brooms, Heavy, House, per doz	8 8 4 7 5 0 5 0 5 5 1 5 5 5 7 5 5 7 5 5 5 5 5 5 5 5 5 5
	Butter, per lb	21 23 23 25 25 26 24 2675 27 27 2875 3037 2841
	Beef, per cwt	6.95 2.70 2.70 4.64 4.64 4.64 5.00 5.00 5.00 10.10 9.80 9.59 9.59
	Beans, Small White, per cwt	8.88.88.88.88.88.88.88.88.88.88.88.88.8
10 HE	Baking Powder, per lb	134 198 198 198 198 198 20 20 121 121 168 184 1050
NOW	Apples, Evaporated, per lb	.063 .063 .065 .078 .078 .0890 .0815 .0815 .0875 .0617
TABLE SHOWING HEL	YEAR	9003. 9006. 9006. 9006. 9008. 9110. 9111. 9123. 9133.

Table No. 10.

TABLE SHOWING TOTAL VALUE OF STATE PROPERTY UNDER SUPERVISION OF THE STATE BOARD OF CONTROL, SEPTEMBER 30, 1916.

	Real Estate	Buildings	All Other	Total
State House and Temple of Justice  Western State Hospital Eastern State Hospital Northern State Hospital Institution for Feeble Minded State Soldiers' Home Washington Veterans' Home. State School for Deaf. State School for Blind. State Penitentiary State Training School. State Reformatory	\$235,000 00 70,355 00 73,969 50 101,650 44 45,295 57 27,525 00 23,900 00 7,428 00 7,000 00 29,398 70 43,600 00 28,749 47 53,785 11	\$999,000 00 539,202 84 518,074 00 620,673 99 519,703 96 46,455 00 218,806 26 82,392 00 122,217 00 506,712 74 185,359 08 138,834 20 529,327 76	\$11,297 00 151,925 17 98,770 88 94,008 00 96,504 54 25,435 00 74,220 37 31,097 97 13,393 37 253,387 94 22,100 46 20,909 13 73,365 77	\$1,135,297 00 761,483 01 685,814 83 816,527 43 661,504 07 99,395 00 316,626 63 120,917 97 142,547 37 786,499 38 202,059 4188,491 80 656,478 64
Totals	\$747,856 79	\$4,863,988 78	\$962,346 55	\$6,578,642 12

## SUMMARY OF APPROPRIATIONS.

REQUESTED FOR THE FISCAL PERIOD BEGINNING APRIL 1, 1917.

Vestern State Hospital:		
OPERATION (Including salaries and wages)		\$476,300 00
MAINTENANCE (Repairs and upkeep)		11,708 00
CAPITAL OUTLAYS, itemized as follows:  Receiving hospital (first unit)	\$168,000 00 52,000 00 52,000 00 10,000 00 10,000 00 10,7500 00 2,200 00 5,700 00 2,840 00 3,000 00 4,200 00 3,000 00 4,200 00 5,400 00 1,200 00 1,200 00 1,200 00 1,600 00 1,200 00 1,600 00 1,200 00 1,500 00 1,500 00 1,500 00 1,500 00 1,500 00 1,500 00 1,500 00 1,500 00 1,500 00 1,500 00 500 00 500 00	309,876 00 5,000 00
n State Hospital:		
RATION (Including salaries and wages)		\$407,000 00
TTAL OUTLAYS, itemized as follows:  w lawns and sidewalks  w lawns and equipment for greenhouse  and equipment for greenhouse  trowing and equipment for greenhouse  trowing and equipment for greenhouse  trowing and equipment for greenhouse  trowing and equipment  to store room  pairs to store room  pairs to store room  pairs to store room  pairs to store room  potic tand at ball grounds  wo sloss discussions and equipment  fouselver in ture and equipment  to equipment  Two mootors and three transformers  Extensions to power and light line  Extensions to power and light line  Library and piano  Yray machine  Live stock		39,000 00
DEPORTATION to other states of non-resident insane pa	tients	5,000 00
Potal	*************	\$167,600 00

i

Northern State Hospital:		
OPERATION (Including salaries and wages)		\$301,125 00
MAINTENANCE (Repairs and upkeep)		28,500 00
CAPITAL OUTLAYS, itemized as follows:		
One male ward building	\$70,000 00	•
One wing to complete female ward building	28,000 00	
One tubercular ward building	40,000 00	
One nurses' home	87,000 00	
One commissary and stores building	17,500 00	
One piggery	3,000 00	
One greenhouse	2,000 00	
Permanent power house and equipment	85,750 00	
Household furniture and equipment	10,000 00	
Concrete supports for main water pipe, etc	9,665 00 4,000 00	
Extending and enlarging water mains	4,000 00	
Machine shop equipment	1,500 00	
Carpenter shop equipment	750 00	
Laundry equipment	2,500 00	
Laundry equipment	2,500 00	
Hydro-therapeutic equipment	8,000 00	
Additional filter bed	8,000 00	
Library and equipping auditorium	1,500 00	
Dredging Hansen creek	10,000 00	840,665 00
DEPORTATION to other states of non-resident insane pat	ients	5,000 00
Total		\$670,290 00
Institution for Feeble Minded:  OPERATION (Including salaries and wages)		\$259, <b>220</b> 00
MAINTENANCE (Repairs and upkeep)		6,800 00
CAPITAL OUTLAYS, itemized as follows:	1	·
Two annexes to custodial buildings	\$80,000 00	
Furniture	3,000 00	
Material for poultry houses and pig pens	1,000 00	
Dairy barn and two silos	12,000 00	
Cold storage building and shop annex to boiler house	7,000 00	
Cold storage plant	3,500 00	
Pipe and fittings for connecting five buildings with	5 ann an	
central heating plant	5,000 00 3,000 00	
Coal bunkers	1,500 00	
Material for window screens	500 00	
Filter bed	700 00	
Walks, roads and grounds	2,000 00	
Equipment for kitchen and bakery	1,000 00	
Equipment for work shop	850 00	
Farm implements	350 00	
Motor truck	3,000 00	
Miscellaneous equipment	320 00	121 000 00
Library	200 00	
I		124,920 00

tate Soldiers' Home:		
OPERATION (Including salaries and wages)		\$85,000 00
MAINTENANCE (Repairs and upkeep)		3,975 00
CAPITAL OUTLAYS, itemized as follows: Clearing 20 acres land. Hospital building Two-story barracks building. Remodeling present hospital building for barracks Surgeon's cottage Pedding pen and slaughter house. Office equipment Household furniture and equipment Auto truck	\$2,000 00 45,000 00 40,000 00 1,500 00 2,000 00 250 00 1,450 00	94,800 00
Total		, \$183,775 00
ly of the State Soldiers' Home	İ	\$45,000 00
ington Veterans' Home:	,	
RATION (Including salaries and wages)		\$124,000 00
TENANCE (Repairs and upkeep)		11,800 00
TAL OUTLAYS, itemized as follows: rechase of strip of land adjoining institution frounds on west.  men's building cony to assembly hall ditional boiler dilary bump, etc.  truck  e escapes stle bridge to cemetery.  e escapes stle bridge to cemetery.  weshold furniture and equipment.	\$6,600 00 25,000 00 2,000 00 6,500 00 1,000 00 1,000 00 1,500 00 3,000 00 3,000 00 5,000 00 5,000 00	52 <b>,9</b> 00 00
Total		\$188,700 00
School for the Deaf:  RATION (Including salaries and wages)  INTENANCE (Repairs and upkeep)  PTAL OUTLAYS, itemized as follows: building  Authority for same.  Including administration building  Type for print shop.  Authority and tools for manual training.	\$35,000 00 5,000 00 5,000 00 2,500 00 520 00 500 00 200 00	\$91,980 00 2,700 00 48,720 00
NBRO		
ENBES STUDENTS ATTENDING GALLAUDET COLI	LEGE	2,000 00
Total		\$145,400 00

State School for the Bilnd:		
OPERATION (Including salaries and wages)		<b>\$52,560 00</b>
MAINTENANCE (Repairs and upkeep)		1,000 00
CAPITAL OUTLAYS, itemized as follows: Purchase of one acre of land adjoining grounds on		
east		
Purchase of four and a fraction acres adjoining	\$0,000 00	
grounds on west	5,000 00	
Kitchen building and equipment	17,000 00	
Shop row	18,000 00	
Additional boiler	2,500 00	
Retaining wall and sidewalks	1,000 00	
Finishing and equipping plunge in new building	4,000 00	
Installation of vacuum cleaner	500 00	
Pipe organ	2,000 00	
Domestic Science equipment	500 00	
Gymnasium equipment	180 00 160 00	
Musical instruments and library	1,500 00	
Wrecking old building.		58,840 00
MANUAL TRAINING SUPPLIES	-	800 00
Total		<b>\$</b> 113,200 00
State Penitentiary:  OPERATION (Including salaries and wages)		\$250,4 <b>00 00</b>
MAINTENANCE (Repairs and upkeep)		14,000 00
CAPITAL OUTLAYS, itemized as follows:	ĺ	
Women's building	\$10,000 00	
Steel roof to cell wings and dining room	10,000 00	
Installation of toilets in cells		
Forced ventilation in cells	2,000 00	
Additional pumping facilities		
Increasing height of stockade wall	4,000 00	
Farm building		
Office furniture and equipment	700 00	
Household furniture and equipment	1,500 00	
Utility equipment	400 00	
Miscellaneous equipment	200 00 2,500 00	
Library	500 00	45,000 00
		\$309,400 00
OPERATION OF JUTE MILL	\$61,940 00	
PURCHASE OF JUTE (Approx. 5,000 bales)	150,000 00	201,940 00
Total		\$511,340 00

\$254,100 00

State Training School:		
OPERATION (Including salaries and wages)		\$127,850 00
MAINTENANCE (Repairs and upkeep)		8,200 00
CAPITAL OUTLAYS, itemized as follows:		
CACALITIES FOR GAMES OF land	85,000 00	
Preining tillable land	9 000 00	
	800 00	
Gymnasium Tro donth	20,000 00	
Two double cottages.	100,000 00 800 00	
Range for kitchen	900.00	
"YUM PERMENT FOR COTTROLS	10.000.00	
AND APPLIABILITY OF COMMODILITY	i oloo oo i	
Our Car Carlinmant	. 700 00 I	
Additional boiler with Parkinson furnace	4,000 00	
Library and print shop	2,000 00 500 00	150,750 00
Total.		100,700 00
gtate School for Girls:		
OPERATION (Including salaries and wages)	i	\$71,500 00
MAINTENANCE (Repairs and upkeep)		2,600 00
CAPITAL OUTLAYS, itemized as follows:		
VERTIES and fencing	\$3,000 00	
Durneading at Chehalis river	3.000.00	
inree bridges	1,500 00	
Cement walks	4,000 00	
Post lamps	1,050 00	
Additional cottage	45,000 00 5,000 00	
Fireproof school building and auditorium	85,000 00	
Greenhouse	1,500 00	
Bungalow for engineer and garage	2,000 00	
COVER over entrance to Granger Hall	700 00	
Addition to administration building	5,500 00	
Electric plant	13,000 00	
Power house and pump house	4,000 00	
Drilled well	200 00	
Farm machinery	1,200 00 750 00	
Library and moving picture machine	500 00	
Automobile		
	600 00	
Furniture and equipment	2,500 00	180,000 00

Washington State Reformatory:	
OPERATION (Including salaries and wages)	\$205,475 00
SALARY OF CHAPLAIN	2,400 00
Domestic building addition.  Water system Oil storage equipment. Signal system motor set Refrigerating plant Inmates' and Officers' kitchen equipment. Manual training and shop equipment. Land clearing Auto truck Transmission cables and switchboard extension. Planking stockade wall Library and plano.	7,500 00 5,200 00 0,000 00 750 00 250 00 4,500 00 4,500 00 4,603 00 6,300 00 4,000 00 3,000 00 1,000 00 1,000 00 1,000 00 1,000 00 1,000 00
Total.	
Capitol Building and Grounds:	
OPERATION (Salaries, services and Material)	
MAINTENANCE (Repairs and upkeep)	8,500 00
Total	\$42,000 00
Temple of Justice:  OPERATION (Salaries, services and material)	\$16,500 OO
Transportation:	
Of convicts, incorrigibles and insane, including salaries and texpenses of guards and attendants	### ### ### ### ######################
Parole Department	\$35,000 00
Deportation of Insane Aliens:	
Including salary and traveling and incidental expenses of age	nt <b>\$30,000 00</b>
State Board of Control: Salaries of members. Salaries of employees. Office expenses Traveling expenses Printing fund	
Total	\$45,700 00
GRAND TOTAL OF APPROPRIATIONS REQUESTED	

## TATEMENT OF VISITATION TO INSTITUTIONS BY THE MEMBERS FROM OCTOBER 1, 1914, TO SEPTEMBER 30, 1916.

Western State Hospital, Fort Stellacoom.

YEAR	EAR WHEN MADE BY WHOM MA	
	October 81	Jones
	November 2, 8	Jones
	November 17	Morse
	December 4	Jones
<b>.</b>	December 28, 29	Morse, Skaggs
·	February 5	Skaggs
	May 81	Morse Shares Cookse
	June 17, 18, 19	Morse, Skaggs, Cochran Morse
	August 18	Morse
	September 6	
	September 7	Morse, Skaggs, Cochran
	November 16	Cochran
	December 1, 8	
8 <b>.</b>		
	January 29	
	March 28, 29, 30	
	April 30	Morse
	May 14	
	May 15	Skaggs
	May 21, 80, 81	
	June 3, 4, 5	
	June 8	Morse
	June 11	
	June 15	
	July 27, 28	
	July 20	Morse
	August 11	Skaggs Morse, Cochran
	August 12	
	August 18, 15	
	August 20	
	August 21	Skaggs
	August 27	Morse
	September 8	
	September 4	
	September 12, 13	

#### Eastern State Hospitai, Medicai Lake.

YEAR	WHEN MADE	BY WHOM MADE
<b>4</b>	October 12, 18, 18 February 8, 4, 5, 8. April 20, 21, 22. June 28 July 27 July 28 September 12 October 28	Jones Morse, Skaggs Cochran Morse, Skaggs, Cochran Morse, Skaggs Cochran Morse, Skaggs
6	December 22 January 26 February 25 April 15 April 16 June 22, 28 July 14, 15	Cochran Morse, Skaggs Morse, Skaggs, Cochran Cochran Skaggs

# STATEMENT OF VISITATION TO INSTITUTIONS—Continued. Northern State Hospital, Sedro Woolley.

YEAR	WHEN MADE	BY WHOM MADE
1914	October 1	Jones, Morse, Ross
1915	November 18, 19. January 5, 6. June 4	Morse, Skaggs Morse, Skaggs Cochran
	August 15, 16.	Morse, Skaggs, Cochran
	December 7, 8	Morse, Skaggs, Cochran
1916	January 18, 19	
	May 18	Morse, Skaggs, Cochran
	July 10 August 18	

#### Institution for Feeble Minded, Medical Lake.

YEAR	WHEN MADE	BY WHOM MADE
1914	November 7, 9.	
1915	December 19 February 5, 6	Jones Morse, Skaggs
	June 27 July 27 September 12	Morse, Skaggs, Cochran
	October 29 December 22	Morse, Skaggs
1916	April 16	Cochran
	July 14	Morse

### State Soldiers' Home, Orting.

YEAR	WHEN MADE	BY WHOM MADE
1914	December 30	Morse, Skaggs Morse, Skaggs
1919	May 31	Cochran
	September 3	
	September 13	Morse, Skaggs
	October 17	Morse
i	November 15	
1916	January 12	
	January 18	Morse, Cochran
	May 21	
	May 30	
	June 7	
	August 11	
	September 18	Morse, Skaggs

## FATEMENT OF VISITATION TO INSTITUTIONS—Continued. Veterans' Home, Retsil.

YEAR	WHEN MADE	BY WHOM MADE
	November 27, 28.  January 4  March 14  May 31  June 2, 3  July 6  October 17  November 24  December 4, 5, 6.  January 11, 12.  March 7, 8  May 16  July 8  August 3  August 16	Morse, Skaggs Morse, Skaggs Skaggs Morse, Skaggs, Cochran Morse, Cochran Skaggs Skaggs Morse, Skaggs, Cochran Cochran Morse, Skaggs, Cochran Skaggs, Cochran Skaggs, Cochran Skaggs Morse Skaggs Morse Skaggs

#### State School for the Deaf, Vancouver.

YEAR	WHEN MADE	BY WHOM MADE
	December 2 May 6 May 18 June 7, 8, 10 August 25 September 8 November 18 January 4, 5 February 18 March 6 May 8 May 9, 10. May 26, 27, 28 June 13, 14 August 4 August 4 August 23 August 23 August 25	Morse, Skaggs, Cochran Skaggs Cochran Morse, Skaggs, Cochran Cochran Morse, Skaggs, Cochran Cochran Morse, Skaggs, Cochran Skaggs Morse, Skaggs, Cochran Morse Cochran Morse Morse, Cochran Morse, Skaggs, Cochran Morse, Skaggs, Cochran

#### State School for the Blind, Vancouver.

- 1		
٠٠٠.١	May 8	Morse, Skaggs, Cochran
	May 24	
- 1		
	June 7, 8	
- 1	August 24, 25	Morse, Skaggs, Cochran
	September 8	
	October 22	Morse, Skaggs, Cochran
	November 19, 20	Morse Skaggs Cochran
••••	January 3, 4, 5	
	February 3. 17	Morse, Skaggs, Cochran
	May 10	Morse Skages Cochran
	M 00 07 00	Moreo, Caugge, Commun.
	May 26, 27, 28	
	June 12	Cochran
1	July 25	
	August 8, 4	Morse, Cochran
	August 23, 24	Morse, Skaggs, Cochran
	August 25	Morro Shagge,
	August 20	MUISE, SKAKES

## STATEMENT OF VISITATION TO INSTITUTIONS—Continued. State Penitentiary, Walla Walla.

YEAR	WHEN MADE	BY WHOM MADE
1914	October 15, 16	
1915	December 16, 17	
	April 18, 14, 16, 17	
	May 20, 21, 22	Morse, Skaggs, Cochran
	June 28, 24	Cochran
	August 8	
	September 9	
	October 19	
	October 20, 21, 23, 24, 25	Morse, Skaggs, Cochran
	October 81	
	December 13	
	December 14, 15, 16, 17	
	December 18, 19	
1916	January 24	
	February 23, 24	
	February 25	
	April 18, 19, 20, 21.	
	April 22	
	June 1, 2, 3	
	July 17	Morse, Skaggs
	July 18, 19, 20, 21, 22	
	July 23	
	September 1	Cochran

### State Training School, Chehaiis.

YEAR	WHEN MADE	BY WHOM MADE
1914	November 16	Jones Jones, Morse, Skaggs
	December 4 December 21	Morse, Skaggs
1915	January 4, 5, 6, 7, 8, 9, 11, 12, 18 February 21	Jones Morse
	March 7 April 28 June 14, 15, 16	Morse, Skaggs
	July 2 July 15	Morse Morse Cochran
	August 11 August 26	Morse Morse, Skaggs, Cochran
	September 1 October 12, 18.	Morse Morse
	November 3 November 30 December 1	Morse, Skaggs Morse, Cochran Morse, Cochran
1916	December 2 January 6	Morse Morse, Skaggs, Cochran
	January 7 January 26	
	February 10, 18	Morse
	May 13, 14, 15	Morse
	June 8, 9	Morse, Skaggs
	June 22, 23	Morse
	August 5	

YEAR

# STATEMENT OF VISITATION TO INSTITUTIONS—Continued. State School for Girls, Grand Mound.

WREN MADE	BY WHOM MADE
October 21 October 28 November 14 November 22 February 22 April 6 May 29 Fuly 1 Fully 16 August 11 August 26	Jones Jones, Morse Jones, Morse Morse, Skaggs Morse, Skaggs Morse, Skaggs, Cochran Morse Morse, Cochran Morse Morse, Skaggs, Cochran
October 18  November 4  November 9  November 9  November 1  Sanuary 7  Sanuary 27  March 14  May 11  Une 9  Une 15, 16  Une 16, 17  Une 23, 29, 30  Unly 3  Unly 29  August 5  August 26	Morse, Skaggs Morse, Cochran Morse, Cochran Morse, Occhran Morse, Skaggs, Cochran Morse, Skaggs, Cochran Morse, Skaggs Morse Cochran Morse, Skaggs Morse Morse, Skaggs, Cochran Morse, Skaggs, Cochran Morse, Skaggs, Cochran

## Washington State Reformatory, Monroe.

EAR	WHEN MADE	BY WHOM MADE
	October 8, 9, 10	Morse, Skaggs Morse, Skaggs Morse, Skaggs Morse, Skaggs Morse, Skaggs, Oochran Skaggs
	July 7, 8, 9. August 10. September 2, 3. October 6, 7, 8. November 11 December 9 December 10, 11 December 26	Skaggs Skaggs Morse, Skaggs, Cochran Morse, Skaggs, Cochran Morse, Skaggs, Cochran Cochran Skaggs
	January 10, 11, 12, 19.  January 20, 21.  January 28, 29.  February 7, 8.  March 9  April 6, 7  May 4, 17.  July 6, 7.  July 6, 7.  July 28, 29.	Morse, Skaggs, Ocehran Skaggs Skaggs, Cochran Morse, Skaggs, Ocehran Morse, Skaggs, Ocehran Morse, Skaggs, Ocehran Skaggs
	August 5, 6	Skaggs Morse, Skaggs, Cochran

#### GENERAL REPORT.

Two changes in the membership of this Board have occurred since the date of the last biennial report. Herman W. Ross resigned on December 1, 1914, and was succeeded by T. E. Skaggs. The term of H. T. Jones expired March 31, 1915, and W. H. Cochran was appointed as his successor, assuming office on May 1, 1915. Frank C. Morse became chairman on April 1, 1915.

By frequent visits, as will appear from a detailed statement elsewhere in this report, we have exercised close personal supervision of the work of all institutions. We have done our utmost to secure such co-operation between the different institutions as would prevail between the different departments of any great corporation. Success has attended our efforts in this regard. The results obtained have been most gratifying. The business operations have been standarized and rendered uniform, so far as the scope and diversity of the work would permit. The state's wards have been cared for in a most efficient manner at an average per capita cost less than that of the two previous bienniums, notwithstanding the fact that the prices of practically all commodities purchased have risen far above those prevailing in former years.

#### **NEW BUILDINGS AND IMPROVEMENTS.**

All new buildings, for which appropriations were made by the last legislature, have been completed or are nearing completion. In the preparation of plans for these structures we ever had before us the requirements of permanency and utility, while ornateness was not overlooked. Careful and continual inspection of material and workmanship has been made and we believe that the state has received full value for its money. The buildings are all substantial, architecturally beautiful, well adapted to the latest methods of institutional work, and the cost of their construction is much lower than we may expect in

ar future, because all of the contracts were let before the in prices."

ith the funds appropriated for repairs and improvements uildings erected in former years have been maintained in condition and many permanent, valuable improvements

#### DEPORTATION OF ALIEN INSANE.

n appropriation of \$75,000 was made by the last legiste to be expended by this Board in deporting insane patients and in our state hospitals who have been in the United as more than three years and, therefore, are not deportable a federal government at the expense of the steamship company which they were transported to this country.

he act above referred to provides that the State Board of ol, in co-operation with the United States Bureau of Imtion, shall arrange for the deportation of all alien insane hospitals and "cause the cost and expense of transportach alien insane persons to such point or points as may signated by the United States Bureau of Immigration he cost and expense of their care, guarding and maince while being transported thereto to be paid from the appropriated for that purpose." Immediately after the ge of this act we took the matter up with Honorable M. White, United States Commissioner of Immigration, endeavor to prosecute the work with vigor. The superents of our hospitals, as well as this Board, have coted with Mr. White in every detail, furnishing complete f the foreign born patients, together with all information able, paying all expenses promptly, furnishing all asce requested and doing everything within our power to riate the largest number possible. We have been able to 29 aliens at state expense, while relatives have been ined to take 10 others at their own expense.

ne following steps are necessary in the repatriation of an alien by the state:

- 1. The patient must be willing to be deported. No person can be returned against his will.
- 2. Relatives or friends in the foreign country, who are willing to receive him, must be located.
- 3. Passports must be obtained from a foreign consul in the United States.
- 4. Passage must be obtained from some steamship company.

In the cases of Chinese and Japanese, paragraphs 2 and 3 are not applicable. There are none of these nationalities in our hospitals, however, who can be deported, 18 having been returned during this biennium.

The difficulties in effecting deportation are very numerous in normal times. There are much greater obstacles at the present time on account of the war in Europe. We feel, however, that the work done by this Board compares favorably with that of any other deportation bureau in the United States. York is the pioneer in this work. In 1905 the legislature of that state created a state board of alienists, which has since been changed to the bureau of deportation. During the last year this board maintained a large force, including three medical examiners, interpreters, stenographers, etc. It has an appropriation of \$22,000 for the year, which biennially would be \$44,000. In addition to this overhead expense, it had an appropriation of \$40,000 as the actual expense of transportation for one year. With this substantially equipped and amply financed department, with its most favorable location and strong support from the benevolent institutions, we would naturally suppose that large results would have been obtained, but only 309 were deported in an entire year, although there was a population of 36,399 in their hospitals, of which 45 per cent. were foreign born. During the same year New Jersey deported 2, California 3 and Oregon 15. There are only a few other states engaging in this work and these have obtained very small results when the number of foreign born in their institutions is taken into consideration. Up to the present time we have exended from this appropriation only \$2,720.50. We are asking mother appropriation of \$30,000 to be made for this work luring the coming biennium. Should the war in Europe close we shall be able to deport a great many more than have been deported during the past biennium. We desire to call attention, however, to the fact that most of the work involved in repatriation is that which is preliminary to the actual transportation. The former appropriation made no provision for this part of the work. We have therefore requested that the appropriation be so made that we can employ a deportation agent who can give all of his time to the preliminary arrangements. We sinterely hope that our request in this matter will be granted.

#### BUDGET.

In the preparation of our budget for the ensuing biennium exceptional care has been taken in order that no amount might be requested except such as we deem essential for the proper conduct of the institutions. The funds estimated to be necessary for maintenance have been placed as low as safety and efficiency would permit. The cost of proposed buildings and special improvements have been furnished by the most competent architects and engineers whom we could employ.

#### WESTERN STATE HOSPITAL.

On November 1, 1914, Dr. A. P. Calhoun, superintendent of the Western State Hospital, resigned and was succeeded by Dr. W. N. Keller, the present superintendent.

No appropriation for new buildings was made for this biennium. Only \$20,000 was placed at our disposal for repairs
and improvements. With this appropriation the female hydrotherapy has been completed, many wards remodeled and made
ight and airy, the dining room overhauled, all metal roofs of
main building painted, a wagon and implement shed, a horse
table and cow barn constructed, sanitary conditions improved
and various other improvements made. These will all appear in
tetail in the report of Superintendent Keller, which is printed
a full in this volume.

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In our budget we recommend what may seem a large appropriation for new buildings and further extensive improvements.

A receiving hospital is desired to complete the institution. The purpose of such a building is to afford a suitable place for the detention and observation of new patients in order that the probability of cure may be determined. The most favorable time for the cure of insanity is during the early stages and such a building as is proposed would be most admirably adapted to the work of mental treatment as well as observation. If an appropriation should be made for this purpose it is our plan to recommend that legislation be enacted permitting persons suffering from nervous diseases that might result in mental disorder to be admitted and receive treatment upon such terms and at such cost as may be prescribed. The proposed structure, when completed, would care for 400 patients and would cost \$280,000. The sum of \$168,000 requested at this time would construct only the center and two wings.

We believe the time has come when the safety of the inmates of this institution demands the erection of a detached power house and laundry building. Any casual observer must appreciate the menace of the present power house to the institution. The plan of the Board is to build a detached power house at the point on the brow of the hill just above the present pumping plant, building a new detached laundry building, and eventually ask for a sufficient appropriation to tear out the entire center of the present hospital building and construct a new modern center. All of this improvement is not necessary at this time, but we feel that a commencement should be made by removing the fire hazard now attaching to the institution. The appropriation of \$52,000 would include the removal of the boilers and machinery. The power house will include tin shop, carpenter shop, plumbing shop, machine shop and generators. also included is a brick smokestack and a steel frame coal handling plant. The laundry building will cost \$20,000, which amount will include a sterilizing washer.

#### EASTERN STATE HOSPITAL.

ring the biennium covered by this report, the water sysses been enlarged by the installation of a new pump, larger the intake, and the construction of a new pump house; 300 horse power boiler and automatic stoker have been ed and an improved cow and calf barn erected. Many improvements have been made, but we shall not enumerate here, as a full description may be obtained from the sundent's report.

appropriation of \$30,000 was made two years ago for rchase of what is known as the "Peat" place, an improved f 307 acres adjoining the institution grounds. Title to as taken for the state upon the approval of the same by orney general and the land is now a part of the hospital

e appropriations requested for repairs and improveare quite large in the aggregate, but we believe them to be tely necessary in properly maintaining the institution tv.

#### NORTHERN STATE HOSPITAL.

is is a new institution still in the making. It was estabas a hospital farm, being a branch of the Western State al, but was made a separate receiving hospital by the gislature. One hundred and eighty-eight thousand dollars opropriated for new buildings to be erected during the m just closed and \$34,000 was given for repairs and imments.

o ward buildings—one to accommodate 80 men and the 0 women—are nearing completion. A beautiful auditorith a scating capacity of 800, is also nearly finished. The y building is already completed and in use. These builders of the most approved modern type, the construction concrete and tile.

ere have also been completed a horse stable, cow barn, rn, and a number of smaller farm buildings.

Thirty-five acres of land were cleared and placed under cultivation.

There are still many needed improvements that call for large expenditures of money, making the budget rather large in the aggregate. We desire to direct particular attention to the larger items.

A male ward building, with a capacity of 80, and the addition of a wing to the present female ward building, to care for 40, are absolutely necessary in order that the increase in population may be received. It was found necessary during the past biennium to move the original frame buildings to the new hospital site and use them to house patients. The capacity of all buildings, including the old structures as well as those now in course of construction, is 700. The present population is 660. The increase during the next biennium is estimated at 220. No further argument would seem necessary to show how imperative this requirement is.

A tubercular cottage or ward building should be provided. Many patients afflicted with tuberculosis are committed to the hospital. They are a menace to the health and lives of other patients and should be isolated.

It is extremely difficult to find living and sleeping quarters for attendants. At present some are sleeping on wards, while others are using old shacks, tents and dark attics. An attendants' home should be built for their accommodation.

No provision has ever been made to care for the supplies of the institution. They have been stored in buildings, some of which are so dilapidated that they will hardly stand up. A commissary building is imperative.

Ten of the seventeen buildings originally planned have been built. The power plant must be enlarged to supply the growing demands. Another boiler must be provided now, which will call for an addition to the present power house. The building now in use is but a temporary affair. We recommend a permanent power house and equipment.

#### STATE INSTITUTION FOR FEEBLE MINDED.

our years ago this institution was situated in close proxto the Eastern State Hospital. An appropriation was by the 1913 legislature for the construction of new build-These were erected on state land about a mile southwest original site, it being the judgment of the Board that the istitutions should be more widely separated. As soon as w buildings were finished the boys were removed to them the girls remained in the old buildings. The legislature 5 gave us \$296,000 for additional structures to accomte the girls, the appropriation act providing that they be erected upon "plans and location to be approved by Woodruff."

r. Woodruff elected to place the buildings upon the new and we have constructed an administration building, cong also the central dining room, kitchen and superintendand officers' quarters; a custodial building for girls, two es, laundry, central heating plant and concrete smoke-

tle to what is known as the Zeigler place, containing 160 for the purchase of which an appropriation of \$16,000 ade, was acquired and the lands are now a part of the interpretation farm.

e 250 inmates still at the old site and those on the waiting ll completely fill the buildings now nearing completion. e, therefore, asking for an annex to each of the custodial ags, which will accommodate a total of 120.

to the present time we have purchased all of the milk atter consumed. With a large farm capable of producing tient quantity of feed we should be able to sustain a dairy t profit. The dairy barn and two silos set out in our should be allowed, as we shall purchase some cows with now at our disposal.

### STATE SOLDIERS' HOME.

October 1, 1915, Dr. J. D. MacLean resigned as superent and E. C. Warner was appointed to succeed him.

On account of the age and character of construction of the buildings no extensive improvements could be made with the funds given us. However, a vegetable and fruit house has been built, the unsanitary hog pens torn out and temporary quarters prepared, the hospital renovated and kalsomined, and eight acres of land cleared and put under cultivation.

The buildings at this institution are of frame construction, very old, and the fire risk is extremely hazardous. A new hospital building with accommodations for 100 men should be built. The old hospital building could then be remodeled as a barracks building. A new two-story barracks building, modern and fire-proof, large enough to accommodate 120 men, should be erected to take the place of the old Pickering building. We have asked for a hospital, \$45,000; and for a new barracks building, \$40,000. Should these appropriations be made, and our requests for funds to remodel the other buildings be granted, this institution can be placed in a safe and sanitary condition.

#### WASHINGTON VETERANS' HOME.

No appropriation for new buildings was granted for this biennium. Twenty-one thousand dollars was set aside for repairs and improvements. Five acres of land were cleared and added to the cemetery, a new road graded, a fence around the cemetery constructed and water service inaugurated, a cement tank to store the fuel oil has been built, the kitchen remodeled by laying a tile floor and installing new equipment; the roof as well as the outside and inside of the Washington barracks has been painted and two of the eight-room cottages have been painted on the outside; a new concrete reservoir with a capacity of over 100,000 gallons was erected and a tract of one and onehalf acres of land purchased to be used in connection therewith; a small annex to the hospital, in which may be confined members suffering from contagious diseases, has been built. Many other improvements of various kinds were made in the interest of efficiency.

There is a strip of land about 100 feet in width on the west side of the institution grounds, comprising 38 lots in Gaffner's

addition, which can be secured for \$6,600. The rear of ots is only a few feet from the dining room of the institu-We recommend this appropriation very strongly, as it we the state title to all land between the present property as street.

ne law, as amended by the last legislature, admits the s of soldiers to this home and it becomes necessary that a ng for women should be erected. We therefore request an priation of \$25,000 for that purpose. With this amount ding that will accommodate 50 to 75 women can be built.

#### STATE SCHOOL FOR DEAF.

o special appropriation was made for improvements. sual funds for the upkeep of the property have been used best advantage.

ne building now in use for school purposes is a fire trap, itary, dark and a menace to the health and lives of the . We have requested an appropriation of \$35,000 for a re-proof building and \$5,000 to equip the same.

#### STATE SCHOOL FOR BLIND.

October 20, 1915, W. B. Hall, superintendent of the State I for Blind, while enjoying a few minutes of well earned tion, was suddenly stricken and died in a few moments. I been in charge of the school for a little over two years, which time great improvement was made in every desent of the work. His death was a scrious loss to the compy, the blind children and the state. Sadie E. Hall, his, who had worked with him for many years, was immedimade acting superintendent. So faithfully and efficiently the continue the work that she has been appointed as perint superintendent.

ne old administration building—dark, unsanitary and unhas given way to a new, brick, fire-proof administration chool building, modern in every respect and adapted to ry latest methods of instruction of the blind. With funds ted for the next biennium we hope to wreck the old building and improve the physical appearance of the property. After this is done no other institution of this nature will surpass our own.

The summer school for adult blind, established two years ago, has proved a great boon to those thus afflicted. Twenty-four adults have taken advantage of it and there are several who have learned trades sufficiently to enable them to become self-supporting. Minnesota is the only other state maintaining a summer school.

We are in need of more dormitory room for the growing population of this school. There is a tract of one acre on the east of the school property, having a good eight-room house and a small cottage, which can be obtained for \$5,000. Should this purchase be made the house will furnish sufficient accommodation for the next biennium, thus obviating the necessity of a new dormitory for at least two years. The state should own this land regardless of the benefit to be derived from the houses and we, therefore, urge that an appropriation of \$5,000 be made for this purpose.

We are also in need of more land on the west of the present grounds for the erection of buildings in the future. There is a tract of four and a fraction acres that can be secured for \$5,000, which we believe to be a reasonable price, and we recommend an appropriation for its purchase.

We need a kitchen building and equipment, for which \$17,-000 is asked. Also a shop row for the work of the broom making and caning department and the storage of supplies for the same. Eighteen thousand dollars will be necessary for the construction of this building.

#### STATE PENITENTIARY.

In addition to the regular appropriations for maintenance and the operation of the jute mill, we had the usual amount of \$10,000 for repairs and improvement. The physical property has been maintained in good condition and a new brick dairy barn with a capacity of 50 cows built. Isolation cells for the detention of refractory inmates have been constructed. These

re well heated, ventilated and sanitary, furnishing a huway of punishing by solitary confinement.

most hopeful sign is the decreasing population of this inon. In April, 1913, there were 904 inmates actually the walls; today there are 662. From January 1, 1915, tober 1, 1915, there were 311 commitments, while during me months in the year 1916 there were only 188. Several contribute to this happy result, of which the present pition law is chief. We believe, however, that the humane ent of prisoners and the reformative methods inaugurated the past three years have been a most potent factor. ially do we emphasize the "honor camp" system started excellency Governor Lister. During the biennium endeptember 30, 1916, 255 men were sent to honor camps nly 17 escaped. Of the men who kept faith and received final release from the camps only one has been recomfor another crime.

ach study has been given to the addition of some new rial system that will afford the inmates a means of earnmething for their dependents and for themselves when the developed system with profit to the state and inmates. We are not to report any definite plan at this time, but expect to give after continued investigation during the coming biennium. The present building is stary and is located within the prison walls. A new are should be erected outside of the stockade wall, thus thing the women entirely from the male prisoners. A onebrick, fire-proof bungalow can be erected for \$10,000, the sincerely hope that the appropriation will be made.

be replaced with steel.

The antiquated and unsanitary bucket system should be seed with flush toilets, and a forced ventilating system be installed. This improvement will require increased

ne present roof on the cell wings is a fire menace and

pumping facilities. For these purposes we are asking an appropriation of \$24,000, which request should be granted.

The recommendation for an appropriation to increase the height of the stockade wall made two years ago is hereby renewed. Four thousand dollars would increase the wall from its present height of 14 feet to 22 feet or 23 feet. This would pay for itself in a few years, as it would do away with one guard and make the lives of the other officers safer.

# STATE TRAINING SCHOOL.

On December 31, 1915, G. A. Russell resigned as superintendent and was succeeded by Rev. H. H. Mitchell. Rev. Mitchell retired June 1, 1916, and Rev. George A. Sheafe, formerly chaplain of the State Penitentiary, was appointed as his successor.

During the year a fine, new, concrete storeroom was erected almost wholly by the labor of the boys. It is a great improvement, as we are now able to keep the stores in one place where formerly they were scattered among different places.

The interior of the squad building has been painted, sanitary closets installed and the appearance of the buildings much improved. These buildings, however, are not adapted to the work for which they were intended. The success of the State School for Girls has convinced us that the cottage system should be adopted and a start made in the erection of adequate buildings. We are asking for two cottages, each to accommodate 48 boys, at a cost of \$100,000.

We have also requested an appropriation of \$20,000 for a gymnasium. At the present time the only places provided for recreation at night and during the dark and stormy weather are the basements of the old buildings. A modern gymnasium is an essential requirement.

# STATE SCHOOL FOR GIRLS.

On November 1, 1916, Miss Mary Campbell was appointed superintendent of the State School for Girls, a new institution created by act of the legislature of 1913. The success of this

ol has fully justified the wisdom of the legislature in creit. We direct especial attention to the report of the intendent printed in full herein and containing very cominformation regarding the methods and results accomed.

buring the past biennium a new pressed brick administrabuilding has been completed. There is also accommodafor 24 girls in the building.

ew land has been cleared and is now under cultivation, a dairy herd started, pigs, chickens and other livestock lased. The girls have proved to be good farmers and the es of other institutions will have hard work to excel them. The are asking for an appropriation of \$45,000 for a cot-containing 30 single rooms for girls, together with officers to etc. The construction of this building is made necessly the rapid growth of the number of commitments. At resent time all buildings are completely full, containing than the number provided by law for each building, and to other girls are to be received a new building must be led.

nis is called a State School for Girls, yet no school rooms been provided. Last year the girls were crowded into the tic science room. The population has increased until now be impossible to care for them in this manner. We are the requesting \$85,000 to build a school building of eight with auditorium and gymnasium.

# RECOMMENDATIONS FOR LEGISLATION.

We recommend that the salaries of the superintendents State Penitentiary and the State Institution for Feeble d be increased to \$3,000 per annum, and that the salary superintendent of the State Soldiers' Home be increased 800 per annum. The present salary of the superintend-the State Penitentiary is only \$1,200 per annum, while f the superintendent of the State Reformatory, a much institution, is \$3,000 per annum. We believe that the of the superintendent of the penitentiary should be equal

to that of the superintendent of the reformatory. The present salary of the superintendent of the Institution for Feeble Minded is \$1,200 per annum, which is ridiculously low. In our opinion, \$3,000 per annum would be a proper salary for this position. The present salary of the superintendent of the State Soldiers' Home is \$1,300 per annum, while that of the superintendent of the Washington Veterans' Home is \$1,800 per annum. We are asking for this increase in order that the salaries of the two superintendents may be equal.

2. The applications for admission to our Soldiers' Homes and Soldiers' Home Colony have become so numerous that it is impossible for our homes to care for all of the applicants. The law provides that the applicant must have resided within the state at least three years prior to the time of making application. We know that a great many have applied for membership who have lived in the state only the requisite time, which leads us to believe that some of them come here for the sole purpose of gaining a residence and securing membership in our homes. We believe it would be wise to extend the time of residence to five years and recommend that such legislation be enacted.

We believe that further restriction should be made in prescribing eligibility of applicants for admission to our homes by providing that no persons shall be eligible except those who enlisted from the State of Washington. An exception should be made of veterans of the Civil War, but this restriction should apply to those of all other wars. The reason for this is apparent. Of those already admitted to our homes a comparatively small proportion were sent from our own state. If we continue to receive those who should be maintained by other states it will surely result in our inability to care for our own residents. We, therefore, recommend that legislation along this line be enacted.

3. In our budget we are asking for an appropriation to build a psychopathic ward at the Western State Hospital at Fort Steilacoom. Should this appropriation be granted, a law

d be enacted which will permit persons to voluntarily place selves in the care of the hospital when they may be sufferfrom nervous diseases or threatening mental disorder, in that they may receive treatment which may ward off commental break-down, under such rules and at such cost as be prescribed by the State Board of Control.

There are in our hospitals a great many non-resident ats. A number of states have entered into reciprocal ments, by which patients who properly belong in another may be returned at the expense of the state making the station. We believe that the State of Washington would from such an agreement. We, therefore, recommend that ation be enacted authorizing this Board to enter into an ment with any other state, by which it may give its confor the return of any residents of this state confined in state hospitals, provided such states will reciprocate by ting their own residents who are inmates of our institu
It should also be made a felony for any person to bring

nsane person into the state without first having obtained onsent of the State Board of Control.

In 1907 an act was passed establishing the criminal inward at the State Penitentiary for the confinement of prisacquitted of crime by reason of insanity. Under an apriation made by the same legislature, a building adapted the use was built at the Eastern State Hospital at Medical

It has been the policy of this Board to immediately fer criminal insane to the Eastern State Hospital, where may be safely confined and properly treated for their mentrangement. The criminal insane ward at the State Penicry should be abolished and one established at the Medical institution.

Under the present law, the secretary of state, state or and state treasurer constitute the public property comon, which alone, by and with the advice and consent of the mor, has authority to sell any personal property belong-

ing to the state for which there is no further use, the moneys realized from such sale being turned in to the state treasurer-The Board of Control has charge of the State Capitol building and Temple of Justice, as well as the twelve charitable, penal and reformatory institutions. We believe it would be wise to vest in this Board the power to make sales of personal property belonging to the institutions and buildings under its control. We also recommend that power be given to exchange articles for others of equal value whenever, in the judgment of the Board, such action would be for the best interests of the state. We very frequently have an opportunity to exchange products of our farm and livestock departments, which are not needed by the institutions, for other articles required. In many cases the exchange is more profitable than a sale for cash. For this reason we are asking for legislation which will permit us to use our discretion, under proper supervision, in the matter of selling or exchanging personal property.

- 7. For a number of years there has been accumulating at the various institutions moneys in what is known as the deceased inmates' fund. Some steps should be taken to escheat these funds to the state where the inmate has been dead for more than seven years and no heirs have made claim to the estate. Under the present law the only method by which the property can be escheated is through the regular course of probate procedure. As the amounts are usually small, they would be entirely consumed by court costs. We recommend that a law be passed by which these funds will automatically escheat without proceedings in probate.
- 8. The lives of many officers, employes and inmates in our state institutions have in many cases been jeopardized by persons hunting upon the institution grounds. There should be a law prohibiting any person from hunting upon these grounds.
- 9. We recommend a law making it a penalty for any person to assist an inmate of a state institution to escape from such institution.

- During the session of the State Bar Association, held with the Oregon Bar Association at Portland in 1915, Board met with the prosecuting attorneys and superior judges who were present, for the purpose of discussing equalities arising from the administration of our present rminate sentence law. It was the consensus of opinion of present that the law should fix the maximum and minimum cases, leaving the state prison board and the board of gers of the State Reformatory to say when a man should eased from these respective institutions. A committee, ting of Hon. John R. Mitchell, judge of the superior court urston county; Hon. Kenneth Mackintosh, judge of the or court of King county; Hon. Edward H. Wright, judge superior court of Pacific county; Hon. Scott Z. Henderssistant attorney general, and Hon. Frank P. Christenrosecuting attorney of San Juan county, was appointed in conjunction with the Board of Control in the matter commending such legislation as would bring about a r uniformity in prison and reformatory sentences. embers of this committee, with the exception of Judge it, met in the city of Olympia, and after adopting resolufavoring the enactment of such a law, appointed Hon. Z. Henderson and Hon. T. E. Skaggs to prepare a bill ibmit the same to the legislature. We add our recomtion to that of the judges and urge the passage of this
- During the last session of the legislature, an adult law was drafted by the superior judges of the superior of King county and introduced in the state senate by or John E. Campbell of Snohomish county. The bill failed sage. We understand that a similar bill will be introat the coming session of the legislature and we desire to record as favoring the passage of the same.
- . A number of states have created the office of public er, and such an officer has proved to be a valuable factor iring justice for men accused of crime who have neither

sufficient funds nor friends to enable them to secure a proper defense and, therefore, plead guilty in the hope of securing a light sentence for so doing. We have been informed that a bill will be presented to the legislature creating a public defender in the different counties of this state. Should such a bill be introduced it will receive our unqualified endorsement.

13. The law provides that a person released from the Penitentiary shall receive a suit of clothes, five dollars in cash and transportation to the county from which he was committed. This act was passed before we had a system of parole and has been construed as applying only to those leaving with a final release. We do not believe it to be fair to employers, who are willing to help discharged men to the extent of furnishing them work, to require them to furnish transportation money in advance. We, therefore, recommend a law providing for the payment of five dollars and the furnishing of transportation to place of employment to all men released from the penal institutions, regardless of the manner of release.

We desire to express our appreciation of the support and assistance given us by his excellency Governor Lister, without which the splendid results of the present biennium could not have been achieved.

We are also appreciative of the courtesy and co-operation on the part of the superintendents of the various institutions.

We have received invaluable assistance from the state highway department, the department of agriculture, the public service commission and the state labor commissioner, and we take this opportunity of making public acknowledgment of the same.

# STATE BOARD OF CONTROL.

T OF MEMBERS AND EMPLOYEES, SHOWING ANNUAL SALARIES.

Position i	Per Ann	<b>4</b> 77
l Morse		00
	\$8,000	-
kaggs	3,000	-
ochran	3,000	
prgersonSecretary	2,000	-
hnsonAuditor	1,500	
. Watson Stenographer	1,200	00
8. CameronStenographer	900	00
ebsterDentist	1,800	00
ebb Traveling Attendant, Western State Hospital	720	00
ompsonTraveling Attendant, Western State Hospital	720	00
Kee Assistant Traveling Attendant, Western State Hospital	660	00
angler	720	00
ore	720	00
Restern State Hospital	600	00
Northern State Hospital on	720	00
Northern State Hospital	720	00
State Penitentiary prion Traveling Guard.	1,500	00
State Penitentiary rman Parole Officer,	1,500	00
State Penitentiary	1,500	00
State Training School	1,500	00
State Reformatory rrell Parole Officer.	1,500	00
State Reformatory tham Traveling Guard.	1,200	00
State Reformatory	1,500	00

OFFICERS AND EMPLOYEES OF THE INSTITUTIONS UNDER THE SUPER-ON OF THE STATE BOARD OF CONTROL AND SALABIES PAID, AS PER EDULE ADOPTED APRIL 1, 1916.

# WESTERN STATE HOSPITAL.

Position	P	Balary er A <b>nn</b> u	m
lierSuperintendent		\$4,000	00
WiltFirst Assistant Physician		2,500	00
ewart Physician.		2,000	00
ose Gulick		1,800	00
herland Accountant		1,200	00
anson		840 (	00

		Salary
Name		Per Annum
J. T. Petrich		
Essie Cole		
Geo. W. Thompson		
Frederick Miles		
R. T. Russell		
E. E. Macklin	•	780 00 900 00
	.Chief Engineer	
M. McCully	•	•
J. G. Paquette		
	Fireman	600 00
Joe Kalin		600 00
Joe Siddall		600 00
Walter Hatcher		1,020 00
Geo. Rigney	. First Assistant Cook	720 00
Chas. Runquist	.Second Assistant Cook	600 00
Henry Larsen	.Third Assistant Cook	600 00
C. B. Lund	.Cook's Helper	300 00
Geo. Harrison	. Baker	900 00
Curt P. Rath	. Assistant Baker	540 00
Sam Wier	.Carpenter	<b>900</b> 00
W. S. Isenberg		780 00
S. H. Patterson		720 00
H. L. Ingram		1,080 00
C. H. Dexter		1,080 00
Fred Pridmore		780 00
Nellie Pridmore		540 00
Edna Ammann		420 00 420 00
Alf. Jacobson		900 00
John Leska		900 00
V. W. Richards		1.200 00
A. N. Davison		720 00
C. E. Weeks		540 00
T. P. McNamara		480 00
Lulu Settle		600 00
Edith Kirkwood	. Night Watch	600 00
	Night Watch	600 00
Clara Wier		600 00
Belle Quinn	.Charge Attendant	600 00
Louise Kirtley		600 00
Clara Sawyer		540 00
	.Charge Attendant	540 00
	Charge Attendant	540 00
Lida Hubbard		540 00
Bessie Sutherland		540 00
Celia Cornell	**	540 00
Laura Peterson		540 00 540 00
	Charge Attendant	540 00
Helen Polson	.Charge Attendant	540 00
O. T. Tupps		540 00
Blanche Maherrey		480 00
Edith de Carteret		480 00
Jessie Laidlow		480 00
Edna Hansen		480 00

ne	Position	Salary Per Annum
	Attendant	. 480 00
	Attendant	
Crouse		480 00
	Relief Attendant	
	Relief Attendant	
	Relief Attendant	
	Relief Attendant	
iblin	Surgical Nurse	600 00
'8e '	Attendant	. 540 00
irwin	Attendant	. 540 00
	Attendant	
	Attendant	
	Attendant	
atrick	Night Watch	. 600 00
smussen	Night Watch	. 600 00
Cirkwood	Night Watch	. 600 00
dkie		. 600 00
od	Spec. Attendant	. 540 00
rse	Attendant	
rwin	Attendant	. 600 00
	Attendant	. 540 00
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	Attendant	480 00
	Attendant	480 00
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Y	B. W.	Salary
Name	Position	Per Annum
J. C. Stranahan		
J. S. Ward		
W. W. Cole		
O. D. Bolster		
E. J. Etique		
W. Speaks		
Sadie Murphy		
Edith Kelley		
Frances Niels		
Bessie Kirkpatrick	. Housekeeper	. 480 00
Emma Russell	.Industrial Teacher	. 720 00
EASTERN ST.	ATE HOSPITAL	Salary
Name	Position	Per Annum
A. S. Oliver, Jr	. Superintendent	
M. W. Conway		
J. C. Boyle		
D. G. Wakefield		
Earl Goetchius		
Geo. K. Renkert		
J. W. Fishback		
Katherine Dean		
Theo. Scholer		
W. S. Fleet		
Jas. S. Gruber		
Jack Hayre		
T. W. Pedigo		
David Spears		
Arthur Scott		
Olive Peterson		
Geo. Knutson		
Sam Lemay	.Laundryman	. 780 00
C. J. Opers	.Assistant Laundryman	. 600 00
Emily Brown	.Laundress	. 540 00
Nellie Gray	.Assistant Laundress	. 420 00
P. S. Irvine	.Carpenter	. 1,020 00
G. B. Webster	.Gardener	. 780 00
Theodore Podleck	. Assistant Gardener	540 00
Fred Ully	. Assistant Gardener	480 00
W. F. Hill		
J. W. McDonald		
Peter Peterson		
Albert Luders		
Nels Olson		
S. W. Johnson	•	
F. L. Lewis		
Robert Lewis		
A. R. Hall		
C. O. Vaughn		
Etta Chambers		
Jennie Chamberlain		
Mae Peffley		
S. A. Long		
Emma Proehl	. Attendant	600 00

Ansel Babbe ......Attendant .....

600 00

sm e	Position		Salary Per Annum
Pendergast	Attendant		200 00
Hille			
derson	Attendant		600 00
Smith			
<b>Ep</b> pler	Attendant		600 00
Dozurk			600 00
rdock	Attendant		600 00
Brogan	Attendant		600 00
Johnson	Attendant		600 00
Sinks	Attendant		600 00
Cenna	Attendant		. 540 00
Davis			. 540 00
a Wilson	Attendant		540 00
a. Hanson	Attendant		. 540 00
Killion			
Tyrer			
Hughes		• • • • • • • • • • • • • • • • • • • •	
Baker		• • • • • • • • • • • • • • • • • • • •	
Staley		• • • • • • • • • • • • • • • • • • • •	
tta Atchley		• • • • • • • • • • • • • • • • • • • •	
Stroud		• • • • • • • • • • • • • • • • • • • •	
Gregory		• • • • • • • • • • • • • • • • • • • •	
Van Akin		• • • • • • • • • • • • • • • • • • • •	
ustard	Attendant	•••••	
ude Bangle		• • • • • • • • • • • • • • • • • • • •	
. Harding	Attendant	• • • • • • • • • • • • • • • • • • • •	
Hayes	Attendant		
		•••••	
Hickerson		• • • • • • • • • • • • • • • • • • • •	
Backen		• • • • • • • • • • • • • • • • • • • •	
Roberts		•••••	
Pollom	Attendant	• • • • • • • • • • • • • • • • • • • •	
. Selix			480 00
Angel		• • • • • • • • • • • • • • • • • • • •	
e Bunds		•••••	
McGinley			
let Clemens	Attendant		
Mead			
oore			
edericksen			
n Pitts			
Ball	Attendant		
Angel	Attendant		
Conley			
Shea			
k McCann	Attendant		
Peterson	Attendant		
V. Moorman	Attendant		
Messinger	Attendant		
Gentry	Attendant		
· Cossey	Attendant		
tte Havel	Attendant		
Fishback	Attendant		
nce Tollifson	Attendant		480 00
aret Holler	Attendant		480 00

n.	Salar osition Per Ann	
11 6/110		
Walter FleetAtte		
S. MartinAtte	Budget	
Edward P. ThilginAtte	endant	
W. F. HinerAtte		
Edward Luders Atte		
Joe RasmussenAtte	enuant	•.,
NORTHERN STATE	HOGDITAL	
NORTHERN STATE	Ralar	,
Name Po	osition Per Ann	
J. W. DoughtySup	erintendent \$4.000	00
H. D. MillerAss	istant Superintendent 2.000	00
Joseph HehirPhy	sician 1.500	00
F. A. CraneAcc		00
Carrie MunroSter	nographer	00
Kate Keane	ron 780	00
H. F. Higley Sup	ervisor 900	00
Fred G. A. White Eng	dneer 1,500	00
Geo. W. Towslee Firs	st Assistant Engineer 900	00
H. B. WalkerSec	ond Assistant Engineer 720	
D. C. HunterFire	eman 600	
C. E. NicholsonFire	eman 600	
J. J. CorriganFar		
John FraserAss		
Peter Pyfe Tca		
Ward Bruce		
E. GillisCar	penter 900	
H. RegnanderPai	nter 720	
P. W. MajorPow		
M. Koch		
J. M. Heagerty	istant Cook 600	
C. A. NewmanCoo	k's Helper 360	
Robt. TaylorBak		
F. G. PuringtonLau	ndryman 780	
Eva Higley	indress 540	00
Bella Stewart		00
Mrs. B. F. HealeyNig	ht Watch 600	00
B. F. HealeyNig	ht Watch 600	00
Kate PritchettNig	ht Watch 600	00
J. WhitakerNig		
O. A. GregorsonNig	ht Watch 600	
E. B. WebbNlg	ht Watch 600	
M. J. CollinsNig	ht Watch 600	
Alice LaidlawAtt		
Rosa BellAtt		
Clara BurtonAtt		
Josie RobyAtt		
Anna AndersonAtt		
May WalkerAtt		
M. ReedAtt	endant 480	
John KeaneAtt		00
Inga QuallyAtt	endant 600	00
Bert EwingAtt	endant 480	00
v		

	Salary
ne Posi	
Aegerter	iant 540 00
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urtonAtten	dant 540 00
SeamanAttend	dant 480 00
. SmithAttend	dant 540 00
Berganer Attend	dant 480 00
tewartAttend	dant 480 00
BurgessAtten	dant 540 00
Ayers Attend	dant 480 00
Vitt Atten	lant 480 00
ellAttene	lant 480 00
RobyAtten	lant 600 00
awsonAtten	dant 540 00
eneckeAtten	lant 480 00
erieAttene	dant 480 00
arodiesAttend	dant 480 00
rightAtten	dant 480 00
ClarkAttend	dant 480 00
meAtten	dant 480 00
[errillAttend	lant 600 00
mpsonAtten	dant 480 00
- Stansell	ess 360 00
nsfield	ess 360 00
INSTITUTION FOR FEE	
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oodruff Super Matro Woodruff Matro Owlby Physic	Salary   Per Annum   Intendent   \$1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00   1,200 00
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Podruff Super Woodruff Matro Swiby Physic Swiby Assist Walsh Accou	kion         Salary Per Annum           intendent         \$1,200         00           n         1,200         00           cian         900         00           ant Matron         720         00           ntant         960         00
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oodruff Super Woodruff Matro owlby Physic owlby Assist Walsh Accou mith Clerk Truitt Engin raten Assist Sorlin Asst. uke Assist	tion         Salary Per Annum           intendent         \$1,200 00           n         1,200 00           clan         900 00           ant Matron         720 00           ntant         960 00           eer         960 00           ant Engineer         720 00           Eng. and Laundryman         840 00           ant Engineer         720 00
Dodruff         Super           L. Woodruff         Matro           Owlby         Physic           Owlby         Assist           Walsh         Account           Inith         Clerk           Truitt         Engin           Fraten         Assist           Borlin         Assist           uke         Assist           Ve (Inmate)         Firem	Kolary           tion         Per Annum           Intendent         \$1,200           n         1,200           clan         900           ant Matron         720           ntant         960           600         00           eer         960           ant Engineer         720           Eng. and Laundryman         840           ant Engineer         720           ant Engineer         720           an         30           30         00
Dodruff         Super           L. Woodruff         Matro           Owlby         Physic           Owlby         Assist           Walsh         Account           Mith         Clerk           Truitt         Engin           Fraten         Assist           Borlin         Assist           Uke         Assist           Ve (Inmate)         Firem           Sperson (Inmate)         Firem	tion         Salary Per Annum           intendent         \$1,200 00           n         1,200 00           clan         900 00           ant Matron         720 00           ntant         960 00           eer         960 00           ant Engineer         720 00           Eng. and Laundryman         840 00           ant Engineer         720 00           ant         30 00           an         30 00
Dodruff         Super           L Woodruff         Matro           Owlby         Physic           Owlby         Assist           Walsh         Account           Mith         Clerk           Truitt         Engin           Faten         Assist           Borlin         Asst           uke         Assist           ve (Inmate)         Firem           Sperson (Inmate)         Firem           Oach         Cook	tion         Salary Per Annum           intendent         \$1,200           n         1,200           cian         900           ant Matron         720           on         600           ntant         960           cer         960           ant Engineer         720           Eng. and Laundryman         840           ant         30           an         30           an         30           con         780           on         780
Dodruff         Super           L. Woodruff         Matro           Owlby         Physic           Owlby         Assist           Walsh         Account           Truitt         Engin           Fasten         Assist           Borlin         Asst           uke         Assist           ve (Inmate)         Firem           Sperson (Inmate)         Firem           Oach         Cook           Archibald         Cook	tion         Salary Per Annum           intendent         \$1,200           n         1,200           cian         900           ant Matron         720           intendent         600           cian         960           ant Engineer         720           intendent
Dodruff         Super           L. Woodruff         Matro           owiby         Physic           owiby         Assist           Walsh         Account           Truitt         Engin           Fraten         Assist           Borlin         Asst           uke         Assist           ve (Inmate)         Firem           Sperson (Inmate)         Firem           Oach         Cook           Archibald         Cook           Ilix         Baker	tion         Salary Per Annum           intendent         \$1,200           n         1,200           cian         900           ant Matron         720           tant         600           eer         960           ant Engineer         720           eng and Laundryman         840           ant Engineer         720           an         30           an         30           an         780           and Asst. Cook         780           780         00
Dodruff         Super           L. Woodruff         Matro           Owlby         Physic           Owlby         Assist           Walsh         Accountith           Clerk         Truitt           Fraten         Assist           Sorlin         Assist           uke         Assist           ve (Inmate)         Firem           Sperson (Inmate)         Firem           Oach         Cook           Archibald         Cook           Ilix         Baker           McConkie         Baker	tion         Salary Per Annum           Intendent         \$1,200 00           n         1,200 00           clan         900 00           ant Matron         720 00           ntant         960 00           eer         960 00           ant Englneer         720 00           Eng. and Laundryman         840 00           ant Englneer         720 00           ant Englneer         720 00           an         30 00           -         780 00           and Asst. Cook         780 00           and Asst. Cook         780 00
Dodruff         Super           I. Woodruff         Matro           Owlby         Physic           Owlby         Assist           Walsh         Accou           mith         Clerk           Truitt         Engin           Fraten         Assist           Borlin         Assist           ve (Inmate)         Firem           Sperson (Inmate)         Firem           Oach         Cook           Archibaid         Cook           Ilix         Baker           McConkie         Baker           Dennison         Farme	tion         Salary Per Annum           intendent         \$1,200 00           n         1,200 00           clan         900 00           ant Matron         720 00           ntant         960 00           eer         960 00           ant Engineer         720 00           Eng. and Laundryman         840 00           ant Engineer         720 00           an         30 00           .         780 00           and Asst. Cook         780 00           and Asst. Cook         780 00           ar         720 00
oodruff Super L Woodruff Matro Owlby Physis Owlby Assist Walsh Accou mith Clerk Truitt Engin Fraten Assist Borlin Asst. uke Assist Sorlin Firem Sperson (Inmate) Firem Oach Cook Archibald Cook Ilix Baker Oennison Farma Myers Assist	tion         Salary Per Annum           Intendent         \$1,200 00           n         1,200 00           clan         900 00           ant Matron         720 00           ntant         960 00           eer         960 00           ant Engineer         720 00           Eng. and Laundryman         840 00           an         30 00           an         30 00           and Asst. Cook         780 00           and Asst. Cook         780 00           and Asst. Cook         780 00           ant Farmer         360 00
oodruff Super L Woodruff Matro Owlby Physic Owlby Assist Owlby Assist Accountith Clerk Truitt Engin Fraten Assist Borlin Asst. Uke Assist Ve (Inmate) Firem Sperson (Inmate) Firem Oach Cook Archibaid Cook Ilix Baker Oennison Farmo Myers Assist	tion         Salary Per Annum           intendent         \$1,200 00           n         1,200 00           clan         900 00           ant Matron         720 00           ntant         960 00           eer         960 00           ant Engineer         720 00           Eng. and Laundryman         840 00           ant         30 00           an         30 00           an         30 00           and Asst. Cook         780 00           or         720 00           and Asst. Cook         780 00           ard Farmer         360 00           ant Farmer         480 00
boodruff         Super           L. Woodruff         Matro           Owlby         Physic           Owlby         Assist           Walsh         Accou           mith         Clerk           Truitt         Engin           raten         Assist           Sorlin         Assist           ve (Inmate)         Firem           Sperson (Inmate)         Firem           Oach         Cook           Archibaid         Cook           Ilix         Baker           Assist         Assist           agner         Assist           ibbets         Teams	### ### ### ### ### ### ### ### ### ##
bodruff         Super           L. Woodruff         Matro           Owlby         Physic           Owlby         Assist           Walsh         Accou           mith         Clerk           Truitt         Engin           Fraten         Assist           Sorlin         Assist           ve (Inmate)         Firem           Sperson (Inmate)         Firem           Oach         Cook           Archibald         Cook           Ilix         Baker           Dennison         Farmon           Myers         Assist           agner         Assist           Ibbets         Teams           Laund         Laund	tion         Salary Per Annum           Intendent         \$1,200           n         1,200           clan         900           ant         900           ant Matron         720           ntant         960           eer         960           oer         960           ant Englneer         720           ant Englneer         720           an         30           an         30           an         900           and Asst. Cook         780           and Asst. Cook         780           or         720           ant Farmer         360           ant Farmer         480           deter         480           deter         480           deter         480
oodruff Super L Woodruff Matro Owlby Physic Owlby Assist Walsh Accou mith Clerk Truitt Engin Fraten Assist Orlin Asst uke Assist ve (Inmate) Firem Sperson (Inmate) Firem Oach Cook Archibald Cook Archibald Baker Dennison Farmo Myers Assist agner Assist Itanidal Laund Smith Maid	### ### ### ### ### ### ### ### ### ##
boodruff         Super           L Woodruff         Matro           Owlby         Physic           Owlby         Assist           Owlby         Assist           Walsh         Accou           mith         Clerk           Truitt         Engin           Fraten         Assist           Borlin         Assist           ve (Inmate)         Firem           Sperson (Inmate)         Firem           Oach         Cook           Archibald         Cook           Ilix         Baker           Pennison         Farme           Myers         Assist           agner         Assist           Iarindal         Laund           Smith         Maid           Gigler         Maid	### ### ### ### ### ### ### ### ### ##
oodruff Super L Woodruff Matro Owlby Physis Owlby Assist Owlby Assist Owlby Assist Owlby Assist Owlby Assist Clerk Truitt Engin Fraten Assist Orlin Asst. Uke Assist Orlin Firem Oach Cook Archibald Cook Ilix Baker Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assist Oennison Farm Myers Assi	### Salary Per Annum Intendent
Super   Super	### Salary Per Annum Intendent
podruff Super L Woodruff Matro Owlby Physic Owlby Assist Walsh Accou Inith Clerk Truitt Engin Fraten Assist Borlin Assi Uske Assist Ve (Inmate) Firem Sperson (Inmate) Firem Oach Cook Archibald Cook Archibald Baker Dennison Farmo Myers Assist agner Assist Idanindal Laund Smith Maid	### ### ### ### ### ### ### ### ### ##

......Night Watch .....

Name	Position 1	Salary Per A <b>nnu</b> m
Clara Signor	.Relief and Seamstress	480 00
Adelaide K. Hamilton	.Teacher	600 00
Jane Horton	.Teacher	600 00
Margaret Smith	.Teacher	600 00
Louise Fowler	.Teacher	600 00
Anna F. Webb	.Teacher	600 00
Ora Tuttle	.Teacher	600 00
Inez Adams	.Teacher	600 00
E. Mabel McBride	.Attendant	540 00
Alice Walsh	.Attendant	540 00
Lizzie King	.Attendant	540 00
Mildred Walker	.Attendant	540 00
Genevieve Brown	.Attendant	540 00
C. A. Dunphy	.Attendant	540 00
Jennie Baker	.Attendant	540 00
Annie Murdock	.Attendant	540 00
Elizabeth Burke	.Attendant	420 00
Ella Reid		540 00
Anna Anderson		540 00
Ruth Baker	.Attendant	540 00
Elsie Fluke	.Attendant	540 00
Mrs. U. V. Weaver	.Attendant	540 00
A. M. Jacobs	.Attendant	540 00
A. E. Winterstein	.Attendant	540 00
E. J. Gilkey		540 00
Ella Gilkey		540 00
M. E. Willis		540 00
Mrs. M. E. Willis	.Attendant	540 00
F. M. Hunter	Attendant	540 00
B. T. Hunter		540 00
J. A. Palmer	.Attendant	540 00
Chas. W. Kitchner	.Attendant	540 00
D. R. Perry	.Attendant	540 00
Beatrice Perry	.Attendant	540 00
Sue Krebbs	.Attendant	540 00
Gust Mattson	.Attendant	540 00
8. M. Burke	.Attendant	540 00
Nell Smith	.Attendant	540 00
STATE SOL	DIERS' HOME.	
		Salary
Name		er Annum
Ed. C. Warner		
Martin L. Bibb		1,200 00
D. A. Gove		840 00
Dora R. Hughes		600 00
A. Clarke		420 00
James M. Ewing		180 00
Mrs. Alice B. Warner		360 00
Lotta I. Records		330 00
T. S. Robbins		300 00
J. B. Shaw		120 00
C. D. Jones		120 00
Charles Pettis	-	120 00
J. N. Bertram	-	120 00
F. M. Corbell	.Captain	120 00

420 00

720 OQ

720 00

1,440 00

ie	Position	Salary Per Annum
		. 240 00
	Nurse	
Barkey	Nurse	. 240 00
	Nurse	
	Nurse	
	Fatigue Sergeant	
	Engineer	
	Fireman	
	Fireman	
	Shoemaker	
	Cook	
rooks	Cook	. 600 00
	Assistant Cook	
ley	Assistant Cook	. 240 00
Matthews	Baker	. 600 00
	Assistant Baker,	
Alvord	Steward	. 360 00
ones	Dishwasher	. 180 00
icks	Dishwasher	. 240 00
est	Dishwasher	. 180 00
	Dishwasher	
negali	Scrubber	. 180 00
ла <del>вен</del>		. 240 00
ruesdale		. 240 00
Palton	Waiter	. 240 00
ickersham		. 240 00
famil	Waitress	. 240 00
Telson		. 240 00
laines	Laundress	. 360 00
row	Assistant Laundress	. 240 00
Polson	Laundryman	. 300 00
Britto	Assistant Laundryman	. 240 00
laitland	Farmer	. 480 00
ickneil	Dairyman	. 480 00
erau	Assistant Dairyman	. 120 00
neviance	Night Watch	. 240 00
itzman	Laborer	. 120 00
	Laborer	
		. 240 00
WASHING	TON VETERANS' HOME.	
		Salary
i scombo	PositionSuperintendent	Per Annum
riscombe		. \$1,800 00
McCallum	Adjutant	. 1.380 00
Shively	Stenographer	. 600 00
Dowell	Engineer	. 1.500 00
**************	Fireman	. 420 00
orer	Fireman	480 00
M	Whaman	400 00

Maus......Fireman .....

hnson.....Physician

Name.	Position	Balary Per Annum
Name E. Cookson		
S. J. Donnelly		
Geo. A. Haggerty		
John Richardson		
C. J. Biarlo		
	Nurse	
C. W. Cook		
Charles Hilt		
Hannah Hilt		
Eva Cook		
Paul Evers		
John Walling		
Nellie Burns		
Mabel Phelps		
Columbia Hoffman		
	Waitress	
Minnie Dalrymple		
Marion Hirst		
Ida Wilson		
Eva Wilmarth		
Hattle Scribner		
Julia Hamilton		
Birdie Wilders		
C. J. Davis		
Henry Eaton		
	Dishwasher	
Fred Matteson		
C. C. Penders		
C. W. McKinzie		
Alvina Murker		
M. D. Smith		
Thomas H. Rutter		
W. L. Fleming		
John Brown	· · · · · · · · · · · · · · · · · · ·	
Harry Foster		
•	Janitress	
J. H. Minor		
James Dunn		
Cliver Rake		
Mary Willard	Laundress	300 00
Mary Edwards		
Belle Murphy	Laundress	240 00
George White	Wharfinger	240 00
STATE S	SCHOOL FOR DEAF.	~ .
Name	Position	Salary Per Annum

		Salary
Name	Position	Per Annum
Thomas P. Clarke	Superintendent	\$1,800 00
Mary B. Clarke	. Matron	1,080 00
Dr. M. U. Leiser	. Physician	180 00
John A. Fraser	.Steward	900 00
L. A. Divine	.Teacher	1,500 00
Geo. B. Lloyd	.Teacher	1,500 00
Wm. S. Hunter	. Teacher	1,080 00
Mary E. Kilgore	.Teacher	780 00
Sara McBride	.Teacher	840 00
Frieda Meagher	.Teacher	780 00

540 00

360 00

360 00

360 00

360 00

480 00

300 00

300 00

Position	Salary Per Annum
L. FraserTeacher	. 780 00
OtisTeacher	
oylan	
Skoglund	
ick MeagherInstructor in Printing	
Moore Instructor in Leather Work	
. Caton Instructor in Cooking	
fcDonald Instructor in Carpentry	
des Sewing Instructor in Sewing	
nick	
PerrineSupervisor	
OonaldSupervisor	. 360 00
ton Supervisor	
peed	
ola Assistant Cook	
eston Cook's Helper	. 300 00
Hebauer Waitress	. 360 00
calf	. 360 00
nith	. 300 00
le	. 300 00
BatyLaundryman	. 720 00
hnsonLaundress	
littleJanitor	. 240 00
ll Engineer	
mpsonFireman	
e Night Watch	. 600 00
angdon	. 360 00
A. KiperFarmer	. 600 00
STATE SCHOOL FOR BLIND.	Salary
	Per Annum
HallSuperintendent	
Harris Matron	. 720 00
Knight Accountant	
LieserPhysician	
ire Engineer	
n Literary Teacher	
NixonLiterary Teacher	
Tate Literary Teacher	
M. HallAssistant Literary Teacher	
ichardsonMusic Teacher	
rey Music Teacher	
tanning Assistant Music Teacher	
ningIndustrial Teacher	
kjerCook	600 00
olkjer Assistant Cook	
ughesJanitor	
cker Roys' Supervisor	480 00

ckey ...... Boys' Supervisor ......

ipp ......Girls' Supervisor ......

ager ...... Maid .....

aneely ...... Maid ......

angdon ...... Watchman .....

ine ...... Laundress .......

Baty ......Laundress .....

Stat	E PENITENTIARY.	
Name	Position	Salary Per Annum
	Superintendent	
	Chairman State Prison Board.	
	Assistant Superintendent	
	State Clerk	
	Superintendent's Clerk	1.380 00
	Teacher Night School	300 00
	Stenographer	840 00
	Bertillion and Record Clerk	1,380 00
		900 00
	Quartermaster	960 00
	Steward	
	Physician	1,800 00
	Engineer	
	Matron	780 00
	Usher	840 00
	Farmer	1.020 00
	Mgr. Livestock and Meats	900 00
	Chief Turnkey	1,500 00
	Chief Night Turnkey	1,080 00
	Day Turnkey	780 00
W. H. Dixon	Day Turnkey	780 00
E. A. Connick	Day Turnkey	780 00
R. A. Grant	Day Turnkey	780 00
Thos. Prescott	Night Turnkey	780 00
Seth Chandler	Night Turnkey	780 00
	Night Turnkey	780 00
	Gatekeeper	780 00
C. E. Kennedy	Gatekeeper	720 00
	Warehouseman	240 00
	Guard	720 00
	Guard	720 00
	Guard	720 00
	Guard	720 00
	Guard	720 00
Walter S Rarnes	Guard	720 00
E E Birdwell	Guard	720 00
	Guard	720 00
	Guard	720 00
S D McConley	Superintendent Jute Mill	
I S Paid	Asst. Supt. Jute Mill	1,500 00
Pow M Anderson		900 00
C F U Vollandor		1,020 00
W H Moods	State Clerk	900 00
W. H. Meaus	Overseer	780 00
ENTI MICIERO	Overseer	780 00
J. B. Kelly	Cage Guard	840 00
n. L. Briggs	Watchman	720 00
WELL U'Nelli	Guard	720 00
B. S. Bisnop	Guard	720 00
т попесы	Guard	720 00
r. E. France	Guard	720 00
J. W. Taylor	Guard	720 00
Rev. T. J. Cannon	Chaplain	1.200 00

STATE TRAINING SCHOOL.	Salary Per Annum
e Position SheafeSuperintendent	Per Annum
H. Sheafe	
ieuwenhuysQuartermaster	
Bleicher	
atson	
ston	
FitsgeraldLineman	
Vhite	
Cellogg Agriculturist	
ownsend	
SnyderCarpenter	
adler Shoemaker	780 00
uer	. 780 00
Arwine	. 720 00
Vhipple Teacher	. 600 00
SlaterTeacher	. 600 00
- Craske	. 600 00
rnicce Snyder	
angHousekeeper	. 480 00
L. CharltonNight Watch	
ingNight Watch	
Chittenden Minister	
Smith	. 50 00
lleeson	. 50 00
RamboMinister	
doensPriest	. 50 00
STATE SCHOOL FOR GIRLS.	
STATE SCHOOL FOR GIRLS.	Salary
STATE SCHOOL FOR GIRLS.  Position Superintendent	Salary Per Annum
STATE SCHOOL FOR GIRLS.  Position Superintendent	Salary Per Annum
STATE SCHOOL FOR GIRLS.  Position Superintendent Assistant Superintendent	Salary Per Annum \$1,800 00
STATE SCHOOL FOR GIRLS.  Position Superintendent Assistant Superintendent E Wright Agriculturist	Salary Per Annum . \$1,800 00 . 1,200 00 . 900 00
STATE SCHOOL FOR GIRLS.  Position Superintendent Superintendent Assistant Superintendent E. Wright Agriculturist Bunter Matron	Salary Per Annum . \$1,800 00 . 1,200 00 . 900 00
STATE SCHOOL FOR GIRLS.  Position Superintendent Superintendent Superintendent E. Wright Agriculturist Bunter Matron Playman Matron	Salary Per Annum \$1,800 00 1,200 00 900 00 720 00
STATE SCHOOL FOR GIRLS.  Position Superintendent Superintendent Assistant Superintendent E. Wright Agriculturist Bunter Matron Playman Matron Ludington Matron	Salary Per Annum \$1,800 00 1,200 00 900 00 720 00 720 00 720 00
STATE SCHOOL FOR GIRLS.  Position Superintendent Superintendent Assistant Superintendent E. Wright Bunter Matron Playman Ludington Matron Punie Goff Assistant Matron Assistant	Salary Per Annum \$1,800 00 1,200 00 900 00 720 00 720 00 720 00
STATE SCHOOL FOR GIRLS.  Position  Ampbell Superintendent  th Lowing Assistant Superintendent  E. Wright Agriculturist Bunter Matron  Playman Matron  Ludington Matron  Punie Goff Assistant Matron  R. Clarke Assistant Matron  B. Ash Assistant Matron	Salary Per Annum . \$1,800 00 . 1,200 00 . 900 00 . 720 00 . 720 00 . 240 00 . 240 00
STATE SCHOOL FOR GIRLS.  Position Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Matron Playman Matron Superintendent Matron Superintendent Matron Superintendent Assistant Matron Superintendent Assistant Matron Superintendent Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Matron Superintendent Superintendent Matron Superintendent Superintendent Matron Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superint	Salary Per Annum . \$1,800 00 . 1,200 00 . 720 00 . 720 00 . 720 00 . 240 00 . 240 00 . 240 00
STATE SCHOOL FOR GIRLS.  Position Superintendent Superintendent Superintendent Superintendent E. Wright Agriculturist Bunter Matron Playman Matron Ludington Matron Sunder Assistant Matron R. Clarke Assistant Matron B. Ash Assistant Matron Superintendent Superintendent Assistant Matron Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Super	Salary Per Annum . \$1,800 00 . 1,200 00 . 720 00 . 720 00 . 720 00 . 240 00 . 240 00 . 240 00
STATE SCHOOL FOR GIRLS.  Position Superintendent Superintendent Superintendent Lowing Assistant Superintendent E. Wright Agriculturist Bunter Matron Playman Matron Ludington Matron Punie Goff Assistant Matron R. Clarke Assistant Matron B. Ash Assistant Matron th Bomon Housekeeper M. Snively Housekeeper	Salary Per Annum . \$1,800 00 . 1,200 00 . 720 00 . 720 00 . 720 00 . 720 00 . 240 00 . 240 00 . 240 00 . 480 00 . 480 00
STATE SCHOOL FOR GIRLS.  Position Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Su	Salary Per Annum . \$1,800 00 . 1,200 00 . 720 00 . 720 00 . 720 00 . 720 00 . 240 00 . 240 00 . 240 00 . 480 00 . 480 00 . 480 00
STATE SCHOOL FOR GIRLS.  Position  Imphell Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superint	Salary Per Annum . \$1,800 00 . 1,200 00 . 900 00 . 720 00 . 720 00 . 240 00 . 240 00 . 240 00 . 240 00 . 480 00 . 480 00 . 480 00 . 720 00
STATE SCHOOL FOR GIRLS.  Position  Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent S	Salary Per Annum . \$1,800 00 . 1,200 00 . 900 00 . 720 00 . 720 00 . 240 00 . 240 00 . 240 00 . 480 00 . 480 00 . 480 00 . 720 00 . 720 00 . 720 00
STATE SCHOOL FOR GIRLS.  Position Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Su	Salary Per Annum . \$1,800 00 . 1,200 00 . 720 00 . 720 00 . 720 00 . 240 00 . 240 00 . 480 00 . 480 00 . 480 00 . 720 00 . 240 00 . 240 00 . 240 00
STATE SCHOOL FOR GIRLS.  Position Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Su	Salary Per Annum . \$1,800 00 . 1,200 00 . 720 00 . 720 00 . 720 00 . 240 00 . 240 00 . 480 00 . 480 00 . 480 00 . 720 00 . 240 00 . 240 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00
STATE SCHOOL FOR GIRLS.  Position Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Su	Salary Per Annum . \$1,800 00 . 1,200 00 . 720 00 . 720 00 . 720 00 . 240 00 . 240 00 . 480 00 . 480 00 . 480 00 . 720 00 . 240 00 . 240 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00
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STATE SCHOOL FOR GIRLS.  Position  Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Superintendent Assistant Superintendent Superintendent Matron Playman Matron Matron Superintendent Assistant Matron Superintendent Superintendent State Housekeeper Masiley Housekeeper Supperintendent Superintendent State Reformatory Superintendent Superintendent	Salary Per Annum . \$1,800 00 . 1,200 00 . 720 00 . 720 00 . 720 00 . 240 00 . 240 00 . 480 00 . 480 00 . 480 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00 . 720 00
STATE SCHOOL FOR GIRLS.  Position  ampbell Superintendent  th Lowing Assistant Superintendent  E. Wright Agriculturist  Bunter Matron  Playman Matron  Ludington Matron  Ennie Goff Assistant Matron  B. Clarke Assistant Matron  B. Ash Assistant Matron  H. Usekeeper  Virtue Housekeeper  Virtue Housekeeper  Campbell Nurse  E. Millay Domestic Science  Sutherland Sewing Teacher  L. Worth Teacher  Crosno Teacher  Vaughn Engineer	Salary Per Annum . \$1,800 00 . 1,200 00 . 900 00 . 720 00 . 720 00 . 240 00 . 240 00 . 480 00 . 480 00 . 480 00 . 720 00 . 240 00 . 1,200 00 . Salary Per Annum . \$3,000 00 . 1,200 00

Position

Per Annum

Name

-1 ame	1 detitor	Balary
C. W. Iffert	.Agriculturist	. 1,020 00
B. S. Elwanger		
S. J. Knapp		
S. C. McGee		
G. A. Nicol		
E. G. Jellison		
Jno. W. Mills		
A. Erickson	-	
S. K. Paul	-	
A. B. Hooper		
J. F. Byland	••	
Pierce O'Connor		
Wm. A. Willson		
P. M. Laizure		
C. W. Hadlock		
E. Renard		
J. L. Brady		
W. V. Kennon		
R. W. Byars		
Arthur Olson		
C. S. Beal		
F. L. Oliver		
Fred Frohning		
J. M. Tadlock		
Frank S. Fearing		
W. Withington		
D. P. Kelly		
•		
CAPITOL BUILDI	NG AND GROUNDS.	
		Salaru
Name	2 0000000	Per Annum
A. B. Giblett		
Frank Imlay		
G. S. Prince		900 00
E. S. Horton		900 00
O. C. Nally		900 00
M. J. McGlynn		900 00
R. J. Wilson		900 00
James Lupton		900 00
Marie Jensen		900 00
Fred Schomber	.Elevator	780 00
B. F. Dorsey	. Gardener	750 00
martin is a		
TEMPLE (	N. T. T. C. (117 ) 113	
	OF JUSTICE.	Salary
Name	Position 1	er Annum
L. A. Coons	Position I	\$1,200 00
L. A. Coons. E. J. George.	Position I .Custodian	\$1,200 00 900 00
L. A. Coons	Position I .Custodian	\$1,200 00

# REPORT OF STATE DENTIST.

le State Board of Control:

TLEMEN: I herewith have the honor of reporting to you the of my examinations and treatments of the state charges that me under my care in the various state institutions covering the this biennium from October 1, 1914, and ending September 30,

ing the past 22 months of active employment there were 4,766 examined and 3,348 patients receiving dental service.

reports show that 57 per cent of the incoming patients had eceived dental attention.

total number of teeth filled were 4,558 amalgam fillings, 997 fillings, and 61 root fillings. There were 1,099 cleaning or cases, and 4,187 teeth extracted.

above service was rendered at a cost of \$1.01 per patient and state in salary and material \$3,372.80, or a saving to the state pared with ethical prices for same work of \$7.053.20.

Northern Hospital required one month and four days to comne dental service. All patients here at this time were transfrom the Western Hospital and were in much need of dental n; 59 per cent had never received dental care.

llowed the same rule in the Northern Hospital as I have in all stitutions, which was to examine the mouths of all the patients save all of the teeth possible and to do what other work the ns would permit. The following work was rendered:

examined 283	Cement fillings	42
receiving service 201	Scaling or cleaning	54
fillings 205	Extracting	448
ve service at ethical prices	\$589.00, cost to state in salary a	and
l \$189.16, average cost 94 ce	ents.	

the State Reformatory about three months were required to te the dental services.

ty-three per cent of incoming inmates had not received previous d the population being large this time and changing often made ume of service extensive.

e following service rendered here:

examined		Root canal fillings	
fillings		Extracting 30	
e above service at ethic	al pric	es \$1,536.25, cost to state in salar	y
terial \$461.39, patients	recei	ring service 364, average cost to	o
er patient receiving ser	rvice \$	1.27.	

e State Penitentiary required two months and ten days to comental service.

-3

Fifty-nine per cent of incoming inmates had not received previous dental care.

The following service was rendered:

Patients examined	728	Root canal fillings	4
Amalgam fillings	584	Scaling or cleaning	164
Cement fillings	98	Extracting	429

The above service at ethical prices \$1,264.25, cost to state in salary and material \$365.85, patients receiving service 460, at an average cost of 80 cents.

The State Training School for Boys required about one month to complete dental service.

Seventy-five per cent of incoming boys had not received previous dental attention.

The change in population here is frequent and the filling of teeth extensive. The following service was rendered:

Patients examined	178	Root canal fillings	4
Amalgam fillings	237	Scaling or cleaning	61
Cement fillings	42	Extractions	66

Above service at ethical prices \$455.25, cost to state in salary and material \$151.82, boys receiving treatment 139, average cost of \$1.09.

The State School for Girls required two weeks to complete dental service.

Fifty-six per cent of the girls entering the school had not received previous dental attention. The filling of the teeth here, as in all of the state schools, is the most urgent of dental requirements.

The following dental service rendered here:

Patients examined 80	Root canal fillings	5
Amalgam fillings 106	Cleaning	18
Cement fillings	Extracting	39

The above service at ethical prices \$234.25, cost to state in salary and material \$77.56, girls receiving service 63, average cost of \$1.23.

At the Institution for Feeble Minded I spent two months.

This was my first visit to this school and I was amazed at seeing the children so happy and contented, and looking upon the school as their home with all that a home implies, in spite of their great affliction.

Eighty-five per cent of the incoming children had not received previous dental care, and attention at this time was much needed.

I examined the teeth of all the children and rendered the following service:

Patients examined	448	Root canal fillings	4
Amalgam fillings	530	Cleaning or scaling	115
Cement fillings	116	Extractions	617

Above services at ethical prices \$1,237.50, cost to state in salary and material \$339.00, children receiving service 363, average cost 93 cents.

At the Eastern Hospital I spent three months and four days.

Fifty-one per cent of incoming patients had not received dental ire. While there were many new patients requiring work, the contion of the teeth as a whole were much better than I found them on first visit. The following service rendered:

tients examined1083	Root canal fillings	3
Allinge 521	Scaling or cleaning	180
nent fillings 117	Extracting	783

Above service at ethical prices \$1,398.50, cost to state in salary in the rial \$541.39, patients receiving service 639, average cost of costs.

At the State School for Deaf, I spent twenty-four days.

This was my first visit to this very interesting school.

Fifty-seven per cent of the children had not received previous dental care. The teeth of the children should be cared for at least once a year. The following work was rendered:

Patients examined	126	Root canal fillings	2
Amaigam fillings	216	Cleaning or scaling	24
Cement fillings	47	Extracting	114

Above service at ethical prices \$411.75, cost to state in salary and material \$121.78, children receiving service 98, at an average cost of \$1.24.

The State School for Blind required two weeks' time.

This was my first visit here, and while at first I noticed their affliction, one carries away with them a much deeper impression, not only of their marvelous strides in their school work, but that they seem to get more joy out of their school life than the more fortunate children do.

Sixty-seven per cent had not received previous dental care, and he work was much needed at this time. They should have their teeth booked after each year. The following shows work done here:

hildren examined	60	Cleaning	17
malgam fillings	109	Extracting	71
ement fillings	39		

The above work at ethical prices \$232.00, cost to state in salary and material \$65.57, children receiving service 50, average cost of \$1.31.

The State School for Girls this time required fourteen days; 58 er cent entering since my last visit had not received previous dental are. The following dental service was rendered:

atients examined 92	Root canal fillings	5
malgam fillings 146	Cleaning	20
ement fillings 27	Extracting	30

Above service at ethical prices \$268.25, cost to state in salary and naterial \$72.66, patients receiving service 76, average cost 96 cents.

The Washington State Reformatory this time required two and one-half months.

Fifty-three per cent of the incoming men had not received previous dental care.

The population was not as large as I found on my last visit but they were nearly all new patients and in much need of dental care.

The following service was rendered:

Patients examined	372	Root canal fillings	12
Amalgam fillings	503	Cleaning or scaling	119
Cement fillings	151	Extractions	261

Above service at ethical prices \$1,129.00, cost to state in salary and material \$398.76, patients receiving service 299, average cost \$1.33.

At the Western Washington State Hospital, I had spent nearly four months when this report, ending September 30th, was made out. The work here is not finished, but this report shows the work done to this date.

Forty per cent of incoming patients had not received previous care. The change in population has been great and therefore plenty of work to be done. The condition of the teeth as a whole is better than on my last visit. The following service rendered:

Patients examined	874	- Root fillings
Amalgam fillings	604	Cleaning or scaling 22:
Cement fillings	95	Extracting

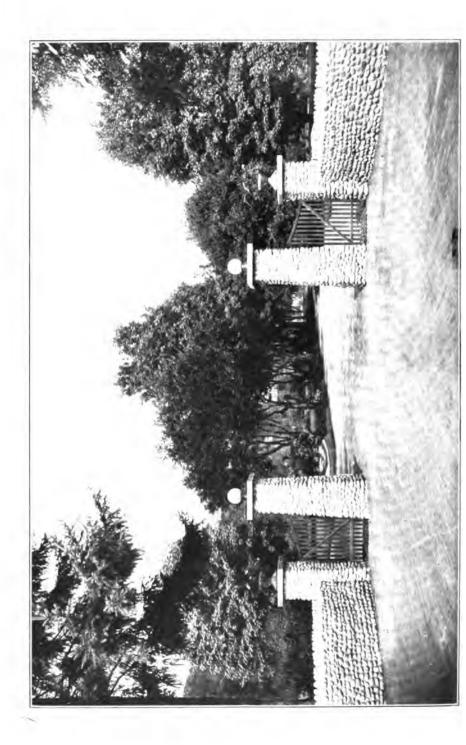
Above service at ethical prices \$1,670.00, cost to state in salary and material \$587.86, patients receiving service 596, average cost of 99 cents each.

In closing, I wish to express my appreciation of the uniform courtesy and assistance tendered me by the various superintendents and also by your honorable Board.

Respectfully submitted,

J. H. WEBSTER, State Dentist.





# REPORT OF SUPERINTENDENTS.

# WESTERN STATE HOSPITAL.

Honorable State Board of Control, Olympia, Washington.

TLEMEN: We have the honor to submit herewith the Eighth Report of the Western State Hospital for the past biennium, ag October 1, 1914, and ending September 30, 1916.

iew of Movement of Population and Allied Statistics.—The papulation at this hospital on October 1, 1914, totaled 1,501 (934 d 567 female), of whom 56 cases were out on parole and 10 by reason of escape, leaving an actual total population at the of 1,435 (901 male and 534 female).

ing the first year of the biennium, there were admitted 586 (393 male and 193 female); 551 vacancies were created through harges, 170 deaths and 221 (168 male and 53 female) transfers orthern State Hospital at Sedro Woolley and one (male) transfer Eastern State Hospital at Medical Lake, Washington, leaving expulation on October 1, 1915, of 1,536, which included 159 cases parole or absent on escape, making an actual total population ospital on October 1, 1915, of 1,377 (820 male and 557 female).

ing the second year of the biennium, 278 patients were admitted le and 111 female); 351 vacancies occurred through 211 dis-137 deaths, and 3 transfers to other state hospitals, leaving a pulation on September 30, 1916, of 1,463. There are 137 cases e or absent by reason of escape, which leaves an actual total on at the hospital on September 30, 1916, of 1,326 (770 male female).

percentage of recoveries to the number admitted the first year 1 and in the second year 30.57 per cent. This method of comecoveries was based upon the total number of recoveries occurthe whole patient population compared to the number of adwithin a given year, and is misleading, and is recorded here purposes of comparison with previous reports. In the year endember 30, 1915, there were 586 admissions, of whom up to and s September 30, 1916, 90 had been discharged as recovered, or tage of recoveries of 15.35. In the year ending September 30, re were 278 admissions, of whom up to and including Septem-1916, 14 were discharged as recovered, or a percentage of reof 5.03. The percentage of rcoveries, as shown on appended o. 17, differs from that formerly used and, if continued, will rate statistics of value and the percentage of recoveries quoted ease as they are credited to a known number of admissions. le also shows the percentage of recoveries to the number of **8**.

The term "recovery" as applied to the insane is usually used in rather an elastic sense, but we have endeavored to apply it here with as much precision as possible. Analysis of the statistics of this hospital show that since 1871, we have had to date 10,469 admissions, and that there have been 6,295 discharges since 1871 to date, and we have at present 110 patients absent on parole, making a total of 6,405, allowing for transfers to other hospitals and deportations. These statistics are of considerable value in showing what service has been rendered to the public by this hospital, as practically out of every two patients that have been admitted since 1871, one has been returned to society.

The average duration of life among our chronic patients in this hospital has been approximately four years. This is ascertained by figuring the average length of life of the 2,778 deaths that have occurred among the patients since the year 1871.

The average hospital residence of patients that were discharged or paroled has been 17 1-3 months. This result is computed on an analysis of the 6,295 discharges occurring since 1871.

The above estimates we consider *minimum* estimates, as we still have patients living in the hospital who have been here practically since the opening of the institution, and who will eventually be included in these tables, thus increasing both percentages.

Alien Insane and Non-Residents.—During the past two years, our population has been decreased through deportations and transfers as follows:

	Male	Female	Total
Deported to foreign countries at expense of federal government	17	5	22
Deported to foreign countries at expense of State of Washington,	10	1	11
Deported to foreign countries without expense to either the State of Washington or to the federal government	9	1	10
to the State of Washington	38	34	72
Transferred from this state to their native states at expense of State of Washington	2		2
At present held in hospital on United States warrant awaiting deportation	4	1	5
Totals	80	42	122

The following tables show the number and percentage of foreign born patients as compared to the native born patients among those admitted during the biennium ending September 30, 1916:

FOR THE YEAR ENDING SEPTEMBER 30, 1915.

	Number Admitted	Foreign Born	Native Born	Place of Birth Unknown	Per Cent. of Foreign Born	Per Cent. of Native Born
Male Female	393 198	185 70	195 122	13 1	47.07 36.27	49.64 63.21
Totals	586	255	317	14	43.51	54.09

# FOR THE YEAR ENDING SEPTEMBER 30, 1916.

	Number Admitted	Foreign Born	Native Born	Place of Birth Unknown	Per Cent. of Foreign Born	Per Cent. of Native Born	
tals	167 111 278	74 41 • 115	89 70 159	4	44.31 36.99 41.36	53.29 68.06 57.19	

e following table shows the number and percentage of foreign atients as compared to the native born patients among those presthe Western State Hospital as of census taken on July 19, 1916:

	Total in Hospital	Foreign Born	Native Born	Per Cent. of Foreign Born	Per Cent. of Native Born	
	780 561	480 254	300 307	61.58 45.27	38.47 54.73	
tals	1,841	784	607	54.73	45.27	

comparison with the following table is interesting and would o indicate that our alien population contributes two and one-half as many insane as the native population. This percentage is the same as in New York state:

# entage of Total White Population in the State of Washington, Represented by Each Nativity or Parentage Group, as Taken From the Census of 1910.

Native	whites	of	native	pare	entage.	• • • • • • • • •			52.81	Pct.
						parentage.				
Foreign	born						. <b></b> .	. <b></b>	21.7	Pct.

ble No. 6 is of especial interest in this connection.

eportations during the past two years have been exceedingly difowing to the war and for a period of time ceased entirely, and was only resumed on a limited basis. A decided increase should the war. Deportations at state's expense have been hampered the similar and other reasons, but the results obtained compare favorably with other states with which we have been in comation. I wish to acknowledge the courteous assistance given to this work by officials connected with the New York bureau of ation.

the past a great many estimates, all running very high, have made of the possible saving to the state if the aliens were de-

ported, who would be subject to deportation under chapter 82, Session Laws of 1915. While we think it is very likely that we will always be able to deport a certain percentage of our aliens under this act, the percentage will never be as large as the early estimates. At the close of the war we should be able to deport quite a number, but it is impossible to make an estimate of what this number would be at the present time.

Review of Movement of Employes.—Dr. A. P. Calhoun resigned effective November 1, 1914, and Dr. W. N. Keller succeeded him as superintendent on the same date.

- Dr. G. O'N. Ireland, third assistant physician, resigned effective July 1, 1915, and Dr. Walter Vose Gulick was appointed to this vacancy.
- Dr. C. E. Sutherland succeeded Mr. H. H. Montgomery as accountant on February 15, 1915.
- Mr. V. W. Richards has been promoted to manager of the livestock department.

Political influences, which have been very pernicious in the development of hospitals for the insane the country over, have been absolutely disregarded in making changes among the employes. Age, experience, sobriety, even temperament, good judgment and dependability have been the main qualifications in making new appointments. The result has been that the hospital has developed a very effective organization.

#### REVIEW OF IMPROVEMENTS AND ALTERATIONS.

- (A) Buildings, Etc.
  - 1. Completion of female hydrotherapy on June 1, 1915.
- Completely overhauling and remodeling ward one, placing in new floor, removing wainscoting and putting on hard plaster.
- 3. Completely overhauling and remodeling wards 16 and 17, new plumbing, and walls made over.
  - 4. Remodeling dining room on ward 9.
  - 5. Remodeling stairway connecting wards 1, 2 and "K."
  - 6. Repainting metal roofs of all main buildings.
- 7. New horse stable nearing completion, 40 by 110 feet, built of tile, containing 14 single stalls and 2 box stalls; vats for solid and liquid manure constructed for stable.
- 8. Wagon, truck and implement shed completed alongside of horse barn, 16 by 108 feet, containing spaces for nine wagons and farming implements.
- 9. Separate dairy barn built for tubercular cows, 36 feet wide by 108 feet long, containing milk-room, feed-room, and stancheons for 44 cows
- 10. Electric pump installed at pump station in May, 1915, capacity 750 gallons a minute. Installation of weirs at each of the two springs forming our main water supply.
  - 11. Incinerator completed.

Drug-room remodeled.

Main trunk line of sewer extended into Chambers creek, so let of sewer will be under water at low tide.

New addition to piggery.

Electric iron system (36 electric irons) installed in laundry, 1915.

Cement floors in chicken houses.

Twenty-nine new portable chicken houses.

Dairy barn remodeled in November, 1915, three large ventieing installed and reinforcement provided for roof.

Baseball park remodeled.

Old water-tank and band-stand torn down.

Annex being enlarged to double present capacity and will actate 90 men when completed.

Work inaugurated in reflooring ward "H."

Work inaugurated in remodeling ward 5.

Work inaugurated on construction of new water sections for 14, 12, 11, and 10.

Work inaugurated on new root-house.

Ward 14 remodeled. Portion of it torn out and made into a entral dining-room.

Basement under center remodeled and rat-proofed.

Plans for a new crematory are under consideration.

O Grounds, Roadways, Lawns, Etc.—A new nursery (one acre) on established in which are being grown new trees and bushes grounds.

ring the past two years, a topographical map has been made of bunds, which embrace a total of 624 acres, and a resurvey has ade, showing the old surveys to have been incorrect. All of the have been changed with the exception of about 1,500 feet. This has made an increase of 5.29 acres of new ground to the host-his work took over three months. The engineers, at the same hade plans and estimates for installing a new irrigation system unction with Waughop's lake, which will reclaim in the neighbor of 93 additional acres.

ork on building concrete public highway between Steilacoom lake through the hospital grounds was commenced in July, 1916, and in the course of construction, this work being done in conjunction the county commissioners of Pierce county. Through their ation we are building a concrete paving, 16 feet wide (19 feet wes) and 6 inches to 7 inches thick, connecting up with one of the county roads, and extending to and through the hospitals, a total distance of two miles. The road is about half com-

etting. The concrete used in this road to date has been tested University of Washington through the courtesy of the United States bureau of forestry. The results of these tests show the concrete to be of excellent quality.

A new system of landscaping has been provided, doing away with a multitude of small shrubbery and through trimming trees high, providing for large open spaces and broad vistas.

Three thousand and twenty trees have been trimmed on the grounds, as follows:

Number of trees trimmed on lawns	2,695
Total	3.020

Modern tree surgery, involving the excavation of rotted cavities and filling in with reinforced concrete has been done in some of the better ornamental trees, and experts were at first engaged for this purpose.

Seven thousand two hundred and sixteen feet of new hedge has been started about the farm and cottages and main grounds, including California and golden privet and Osage orange.

Two thousand six hundred and seventy feet of new driveways have been built, part of which will be bordered with locust and elm trees.

New tennis courts and new croquet courts established.

Several times during the past biennium we have received plants from the United States department of agriculture to use for ornamental purposes on the lawn.

Completed new stone fence with four ornamental gateways along the main highway, 1,737 feet in all, and an ornamental stone lodge built at main entrance, consisting of one room, fireplace and rain-porch.

Twenty-two acres of new ground has been broke and plowed and prepared for lawn, as follows:

In old cow	pasture	 5 1/2 acres
Total.		 22 acres

Four additional acres have been placed in lawn, and of the acreage plowed for new lawn, water mains have been laid over nine and onehalf acres.

The following statement gives the number of feet of pipe laid on the lawn and farm during the past biennium:

Lawn pipe extension, 2-in. galv. pipe	1,675 ft. 550 ft. 200 ft.
Lawn	4,725 ft.
Farm pipe extension, 1-in. galv. pipe	100 ft. 275 ft.
Farm	2.125 ft.
Total number of feet laid on both lawn and fa	rm during

lusive of the new land plowed on the farm, 131/4 acres have wed and put in clover and oats, near the baseball park with the eventually placing into lawn.

he main grounds, 64 1.5 acres have been cleared in the neighof the gulch and about the two springs and the old baseball

r-fifths of the gulch has been entirely cleared, which includes creek and a portion of upland, about 27 acres. Of this, 10 acres en seeded and, in this area, we have constructed 2,774 feet of this and remodeled 5,057 feet of old paths. Twenty-nine new lis have been constructed in Murray creek. In one of the dams 4,520 yards of blue clay was used. In clearing the gulch we 1,470 cords of serviceable wood and 3,600 good cedar posts. This inly obtained from fallen and dead timber, the good trees left g. Eight hundred square feet of cribbing was installed and er rail 335 feet long; 4,000 new plants were set out in the gulch; et of drainage tile was used in this gulch, and a safety cut-off sewer 150 feet long was installed.

August, 1915, we received the first prize from the Tacoma and flower show in both first and second classes, and second r the best exhibit made at the show. We were not allowed to in the dahlia exhibit. Exhibits were made during the past at the Prairie-Grange fair, North Yakima, Spokane, Puyallup fairs. Wherever allowed to compete, our garden products took ze.

water supply of the hospital is spring water and is the same since 1871. There has never been an epidemic from this water. Imes as much water is provided from our available supply as been used, and a great deal more could be available. Weirs in installed at our two main springs, and our measurements are seekly and recorded.

tem of comparative records have been installed in the dairy herd ent and also of the water supplied and consumed, and of the sumption.

Farm.—The following is a list of the important improvements and results secured at the farm, during the past two years: r hundred and thirteen cords of wood were cut.

eteen acres of land cleared of stumps and trees.

enty-eight acres of new land plowed; four acres of this has crop and the rest is ready for seeding.

ver has been raised on the uplands with fair success.

have cured a large percentage of our own hams and bacons, ect to be able to provide all of this in the near future.

has been raised with very good results on both high land and A little over 70 tons of green corn was raised on seven acres in 1915, and we expect to get at least 150 tons this year from acres. Eight varieties of corn have been tried out, of which

five of these have proven very good, maturing fairly well before the frosts came.

Five varieties of field peas and vetches have been raised in small patches with good results. These experiments have been carried on in conjunction with the Western Washington Experiment Station.

Fifteen hundred feet of Osage orange hedge has been set out.

Horses took second prize at the Puyallup fair, 1915.

During the past two years, the following results have been obtained from Reed's ranch.

Produced during the year ending September 30, 1915:

22 tons kale, from 21/2 acres of the bottom land 12½ tons carrots, from 1-3 acre of the bottom land 30 tons beets, from 4-5 acre of the bottom land 38 tons corn, from 8 acres of the bottom land

This bottom land was very much run down or worn out, but after manuring these few acres, we received the above results. The balance of the ranch was used as pasture, an average of twenty heifers being pastured from April 15 to September 30, 1915.

For the year ending September 30, 1916:

Up to September 30, 1916, the ranch has produced 55 tons of green corn. The beets have not been pulled yet, but should yield about 100 tons from three acres of bottom land. Kale has not been cut, but will have 15 tons on two and one-half acres. All corn was raised on the upland, only a part being manured. From 20 to 25 Holstein heifers have been pastured at Reed's ranch from April 15 to September 30, 1916.

With plenty of fertilizer, this ranch could be made into a fairly profitable farm if farmed in conjunction with the hospital farm, but will not pay to farm independently as was done until three years ago. The irrigation system should be improved at moderate expense, in order to get best results from crops.

Special attention is called to the following summary of our profit and loss accounts of the different departments of the farm, which is here exhibited for the first time:

# PROFIT AND LOSS STATEMENT.

Farm, Garden and Livestock Departments for Biennium Ending September 30, 1916, and Produce Sold, Raised and Consumed.

Poultry Department Value of all produce raised Natural increase in inventory value of poultry.	1,317	20		
			\$20,937	89
Swine Department Value of all produce raised	\$17,194	00		
Natural increase in inventory value of swine	1,528	00		
			18,722	00
Dairy Department Value of all produce raised			87,552	97
Farm and Ranch Department Value of all produce raised			1.998	61
Garden Department Value of all produce raised			.,	
Total produce or income—		• • •	-4,104	
			_	
Farm, garden and livestock departments			\$100,946	03

#### Expenditures.

perating expenses			
12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,625 87   12,6	try Department		
12,625 87		. \$10,793	72
### \$20,995 71  ###################################	erating expenses	. 12,625	87
eadjustment of inventory value of herd account of bovine tuberculosis	y Department		
count of bovine tuberculosis	• • •	1	
crease in livestock due to slaughtering tuber-   cular cattle and meat condemned	· ·		
Cular cattle and meat condemned   965 00     Autural decrease in livestock due to stock     Slaughtered for food and stock sold   1,504 00     A and Ranch Department   2,538 72     Can Department   2,538 72     Can Department   2,538 72     Can Department   2,538 72     Can Department   2,538 72     Can Department   2,538 65     Can Department   3,132 90     Can Department   3,132 90     Can Department   2,534 00     Can Department   2,538 00     Can Department   2,538 72     Can Department   3,132 90     Can Department   3,132 90     Can Department   2,059 00     Can Department   2,059 00     Can Department   2,538 72     Can		0	
tural decrease in livestock due to stock slaughtered for food and stock sold			
slaughtered for food and stock sold		0	
27,825 71   27,825 71   27,825 71   27,825 71   27,825 71   27,825 72   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,826 85   27,8			
a and Ranch Department   2,538 72   2   2   2   2   2   2   2   2   2	slaughtered for food and stock sold 1,504 0	07 998	71
2,538 72   2   2   2   2   2   2   2   2   2	n and Ranch Department	- 21,020	11
ten Department berating expenses		. 2,538	72
ries, all departments		•	
ater for irrigation (19,240,500 gals.)   146 25   3,132 90     ries, all departments   5,340 00     r per cent of stable expense   2,059 00     reciation on farm buildings, machinery, implements, etc., 5 per cent per annum (inventory value, \$28,517.05)   2,851 70     rest on investment at 3 per cent per annum (land, buildgs, implements and stock; investment, \$72.905.85)   4,374 35     Total expense of farm, garden and livestock depts   \$71,541 97     Net profit   29,404 06		5	
ries, all departments			
7 per cent of stable expense		- 3.132	
reciation on farm buildings, machinery, implements, etc., 5 per cent per annum (inventory value, \$28,517.05) 2,851 70 rest on investment at 3 per cent per annum (land, buildings, implements and stock; investment, \$72.905.85) 4,374 35 rotal expense of farm, garden and livestock depts \$71,541 97 rotal expense of farm, garden and livestock depts \$29,404 06			
5 per cent per annum (inventory value, \$28,517.05)       2,851 70         rest on investment at 3 per cent per annum (land, build-gs, implements and stock; investment, \$72.905.85)       4,374 35         Total expense of farm, garden and livestock depts       \$71,541 97         Net profit       29,404 06		•	00
rest on investment at 3 per cent per annum (land, build- gs, implements and stock; investment, \$72.905.85)			
gs, implements and stock; investment, \$72.905.85)       4,374 35         Total expense of farm, garden and livestock depts       \$71,541 97         Net profit       29,404 06			70
Total expense of farm, garden and livestock depts         \$71,541 97           Net profit         29,404 06			
Net profit	gs, implements and stock; investment, \$72.905.85)	. 4,374	35
· · · · · · · · · · · · · · · · · · ·	Total expense of farm, garden and livestock depts	. \$71,541	97
\$100,946 03	Net profit	. 29,404	06
		\$100,946	03

above report shows a net profit of \$29,404.06. No valuation has aced upon patient labor. The practical operating profit is 11, or \$14,712.05 in excess of the figures given above. This is the fact that in the above table we have charged off \$7,226.05 eciation at 5 per cent per annum and for interest on the invest-3 per cent per annum. We have also charged off \$5,326.00 on of loss when we re-inventoried the dairy herd, and \$2,160.00 rged to the swine department, on account of kitchen swill.

products, such as manure, have been charged and credited as ended by the United States government systems of farm acg, but inasmuch as it has all been produced and consumed in partment, it does not influence the net profit which has been ed.

Dairy Herd.—Tuberculosis was found among our dairy herd mber, 1914. The herd was tested under the supervision of the mmissioner of agriculture in January, 1915, and has been tested y every six months since.

the original herd, all the milch cows, excepting five, reacted. parate herds have been established, one consisting of our reand the other non-reactors, and the five cows of the original sich did not react were included among the reactors. We have

built a new isolated barn and use separate pasture and separate set of employes for our infected herd. All the milk from the reacting herd is boiled before using. The offspring from the reacting herd is being raised on the Bang and Ostertag system, as advised by the United States department, of agriculture, and to date we have had no reactors among them. This method of raising healthy livestock from a tuberculous parentage may seem at first thought full of risk, but experience has proven its practicability. The management of these herds is conducted to meet the approval of the state commissioner of agriculture.

In February and March, 1915, the dairy herd was reinvoiced, and a new system of individual records was introduced, using forms recommended by the agricultural department of the University of Wisconsin. All cows producing less than 5,000 pounds of milk yearly were slaughtered.

We have visited, during the past biennium, three public sales conducted under the auspices of the Western Washington Holstein Breeders' Association, besides several leading livestock and dairy farms.

We have recently added to our reacting herd 26 pure-bred registered Holstein-Friesian cows belonging to the herd of Mr. Calvin Phillips at Greenbank, Washington. This herd is well known as one of the highest grade pure-bred herds in the northwest. These animals pass an excellent physical examination and are good milkers, but have reacted once to a tuberculin test. Some have not reacted on a second test six months later. Under the terms of our agreement with Mr. Phillips in a few years we shall be the owners of this herd, which should prove to be the foundation of a high-grade pure-bred Holstein-Friesian stock for our dairy. We also purchased of Mr. Phillips a young bull, a direct grandson of the King of Pontiacs, with a fine record on the dam's side.

The daily production of milk has varied from 900 to 2,200 pounds and with the increase in the size of the herd could be made more. We have never made any of our own butter, and we feel by installing a modest creamery we can separate a portion of our milk and thus manufacture at least a part of the butter which we consume.

General Considerations.—The general health of the patients has been excellent. A general and sanitary inspection has been inaugurated once weekly.

A number of major and minor surgical operations were performed, a list of which is appended in this report (Table No. 24).

Thanks are due to a great many outside physicians for assistance and valuable service rendered during the past two years. Special mention may be made of Dr. C. Stuart Wilson of Tacoma, who has done most of our Wassermann and spinal fluid work free of charge; Dr. D. H. Bell of Tacoma, who has made routine ophthalmoscopic and general examinations of the eyes of 261 patients (104 male and 157 female); Drs. Clinton T. Cook and Brock E. Cohoon of Seattle, who have also examined the eyes and ears of patients; Dr. J. S. Davies of

a, who performed a couple of mastoid operations. Dr. Rebekkah tof Chicago was engaged and gave instructions to male and classes among the attendants in the hydrotherapy. Thirteen ants took this course.

the completion of the female hydrotherapy on June 1, 1915, he male and female hydrotherapies were operated on an eightesis daily, whereas formerly the male hydrotherapy had been three-hour daily basis. We are in hopes to further extend the in this department, which is especially valuable. Demonstratere given to classes of nurses from the Tacoma General Hosn both male and female hydrotherapies.

ore open wards were established. Benches are being gradually ed from the wards where formerly used, and chairs installed, se of china is being extended throughout the dining-rooms in of enamelware. The practice of having female attendants on wards has been continued and will be extended as far as prac-

new method of reporting products from the farm, dairy, garden, y, stable, kitchen and dining-room, and grounds and roadways ments was inaugurated in January, 1916.

Il scales in the different departments have been inspected regulary the department of weights and measures. In purchasing support the farm, wherever possible, we have had the feed inspected a state grain inspector, and have, in one or two instances, been do to condemn and refuse to receive shipments on this account.

isits were made by the Superintendent to the Northern State tal, Sedro Woolley, Wash., the Eastern State Hospital at Medical Wash., the Soldiers' Home at Orting, Wash., the Washington State matory at Monroe, Wash., the Oregon State Hospital at Salem, at the Chicago Psychopathic Hospital, the Chicago State Hospital nning, Illinois, Cook County Hospital at Chicago, the Illinois Hospital at Kankakee, the State Psychopathic Institute at Kanthe State Hospital for Insane at Ingleside, Nebraska, and also tate Hospital at Lincoln, Nebraska. Attended meetings on the trip of the American Alienists and Neurologists held in Chicago, 19 to 24, 1916.

ecounts of the hospital were inspected and checked up by the bureau of inspection and supervision of public offices.

ne policy has been pursued of endeavoring to keep all patients, wer possible, engaged in some useful form of occupation, preferavoring outdoor occupations. We have been much more success-this on the male, than on the female side, where our industrial rs are already crowded. (See Table No. 23 for average number le patients employed during the past biennium.)

ne usual moving picture shows, dances, baseball, and other forms reation have been employed.

The advantages of useful occupation and recreation in the care of the insane is clearly established, and while we feel that advances have been made along this line, there is still much more to be accomplished in the future, dependent upon appropriations from the legislature. Our present amusement hall, which was built in 1886, and was then large enough for the patient population at that time, is now too small and will only accommodate less than half the patients who could make use of it.

The policy of publicity has been adopted.

The state dentist paid us his regular visit, and is still engaged in looking after the teeth of the patients.

We favor the eight-hour system among the attendants. Their present hours are altogether too long. While it is impossible to say exactly how much of an increase this would be in our payroll, we believe it would increase the payroll for the attendants only about 25 or 30 per cent.

We believe it inadvisable to have the attendants' living quarters on the same wards with patients, and think better service is rendered when quarters are provided elsewhere on the grounds.

Weekly fire drills have been reinaugurated and the fire equipment has been inspected by experts. A large portion of the old fire hose has been condemned and new hose and equipment were installed in December, 1915. Remodeling was done on all wards where it was necessary to improve the access to fire escapes.

On June 1, 1916, a new mail service was inaugurated at this hospital, the mail arriving and being dispatched via the Pacific Traction car line which passes our gates, which is much more convenient than the old system when the mail arrived and was dispatched on the old Stellacoom T. R. & P. car line and it was necessary to employ a messenger who, with several patients, made two trips daily three-quarters of a mile distant carrying down the outgoing and bringing up the incoming mail.

Legislation Suggested .- We would suggest that some legislation be enacted which will permit persons to voluntarily place themselves into the care of the hospital, when they may be suffering from nervous diseases or threatening mental disorder, and that they should be received for a period of one month or more (not to exceed three) by an agreement which shall also specify the time, signed by them at the time of admission, and they may renew said agreement at the end of one month or more (not to exceed three), but no agreement should be deemed to authorize their remaining unless signed in the presence of some adult person attending as a friend of the person applying in the presence of and also by a duly qualified medical attendant. During the past two years we have had numerous requests by patients and physicians desiring to avail themselves of the facilities of this hospital. but they are unwilling to go through the ordeal of a formal court procedure. We think legislation along this line is very urgently needed, and would help considerably in elevating the status of the hospital in the community. Such patients should pay for hospital service.

Legislation providing for the licensing of private institutions for the care of the insane, providing for their inspection and proper supervision, and making specific provisions for the commitment of patients thereto. The necessity for such a law seems to us to be self-evident and we should not wait for abuses to occur before taking action. We would recommend the New York law in this respect.

Legislation providing for the appointment of a public administrator, guardian or officer, who will look after the legal affairs of those insane patients who have not friends or relatives who will interest themselves in their behalf. It sems to us that this is very important and we are atisfied many abuses exist which would be corrected by the appointment of such an officer.

We would recommend that a certain sum be appropriated yearly to be expended for a systematic investigation into the causes of insanity and the different problems connected with the care of the insane. During the past biennium, the state expended \$1,322,857.60 for the care of the insane in the three state hospitals. If one per cent of this money was devoted to well-directed research work, and the compilation of intelligent systematic statistics relative to the insane in this state, it would probably be of great value and would eventually result in savings which would more than pay for the amount expended.

Some measures should be taken to provide against the "dumping" into this state of the insane who are residents of other states, and wherever possible, we should have a practical reciprocity arrangement providing for the return of insane patients to those states of which they are citizens.

## REQUESTS FOR APPROPRIATIONS FOR THE ENSUING BIENNIUM.

The following are the requests for appropriations for the ensuing blennium:

Maintenance .	
1450 patients at \$0.455  Furniture and Carpets	\$481,617 50 2,000 00 500 00 1,000 00
1. Itemized	
(a) Remodeling air courts. \$7.500 00 (b) Painting	
9 7	50,576 00
2. Unitemized General repairs and improvements	10,000 00

6.	New Buildings				
	1. Receiving hospital	\$168,000	00		
	2. Detached power house	52,000	00		
	3. New laundry and sterilizing washer	20,000	00	•	
	4. Superintendent's cottage	10,000	00		
7.	Farm			250,000	00
	1. Creamery building and equipment	\$1,600	00		
	2. Two silos and equipment	1,200	00		
	3. One 2½ or 3-ton auto truck	3,000	00	5,800	00
	Grand total		-		

We desire to submit the following relative to the different items in this budget:

Maintenance.—We have placed the estimate of the population for the ensuing biennium at 1,450. We cannot make an estimate on expected yearly increase in patient population based on past experience, due to the fact that the districts from which the state hospitals draw patients were reclassified in 1915. We have recently had some decrease in our population, and especially during the past year on account of the operation of the dry law and the Harrison anti-narcotic act. The remarkable decrease due to these acts can be accurately determined by referring to Table No. 10 where it will be shown that this reduction in alcoholic and drug cases amounts to about 90 per cent. There is an increased tendency for commitments to be made to this hospital from Seattle, and if we should have our normal growth, we should expect anywhere from a 5 to a 10 per cent increase in other times. It may be possible after the war is over we can deport more freely both at the federal and at the state's expense, but this is problematical and of course we shall not be able to deport at the state's expense anything like the number that was formerly estimated.

If the improvements requested are granted, it will lead to more or less temporary confusion in our hospital management, which will entail extra temporary operating expense. Moving the power plant will probably mean an increased cost of its operation for some little time to come. The price of fuel oil has already advanced and during the past biennium we consumed \$2,688.40 worth of wood, which we produced ourselves, and with the erection of new buildings fuel consumption will be increased. Also with the erection of new buildings operating expenses will for a while show a relative increase per capita until their capacity has been reached.

The increase asked for in the payroll is considerable, but is necessary. We have at this hospital one physician to every 400 or 500 patients. The ratio should be one to every 250 or 300 patients. We have no pathologist whatever. Our night force is not large enough. We need more attendants. The average of attendants in this hospital varies from one attendant to every 17 or 18 patients. In most institutions the ratio is one to ten, or one to twelve, and in some institutions being as high as one to eight. With more room, we shall enlarge

ur industrial department for women and will require another inustrial teacher. Also with the new creamery, there will be needed ne creamery man and butter-maker at \$75.00 per month.

Dry goods and clothing have all had a marked advance, especially the cheaper grades, of which we use considerable, and will contibute to the increase of per capita cost.

During the past two years several factors have contributed to enble us to have a low per capita cost. Due to the large number of inemployed, the wages paid attendants was much less than at the present time, and for a while we got along without filling a vacancy in several high-salaried positions. An unusually heavy farm production in 1915 relieved the necessity of purchasing supplies in the open market.

We are very anxious to provide better night service; to provide or more advanced care for our epileptics and tubercular patients; to colish basement wards and industrial departments operated in basements; to enlarge and improve the wards for the care of the bed-riddened the infirm; and provide more up-to-date attention in the hospital ards on both the male and female sides, all of which will entail exercise.

Our **per** capita cost compares very favorably with other similar stitutions and very few can show as low a per capita cost as 45 cents hen **service** has been considered. This could not have been done reexcept for unusual advantages possessed by few institutions, name: an **abundant** cheap water supply; unusually favorable power rates; sewer system, the main trunk line dropping 210 feet into tide water; excelled transportation facilities, cars being delivered within the bunds, as many as fifteen have been unloaded here at one time.

- Repairs and Improvements.—In making estimates for approtions requested in the budget for the ensuing biennium, we have architects to draw plans and submit estimates, and wherever mates were made for painting, plumbing supplies or special equipnt, we have engaged the services of those especially trained in se lines, and obtained itemized proposals.
- Remodeling Air Courts.—We have nine air courts. Seven of see face upon the main highway. This highway is being paved at present time and is the road between the city of Tacoma and the lage of Steilacoom one and one-half miles away. It is much more weled than formerly. The street car line which formerly stopped in of the institution now continues past five of these airing courts its way to Steilacoom by a recent newly built extension, and a eat many people pass by the hospital grounds. These airing courts every public. We have had complaints from neighbors regarding eir being more or less of a nuisance and there are a great many obtions to them. The idea is to rebuild them and modernize them me what similar to the airing courts and sun parlors at the new spital for the insane at Sedro Woolley.

- (d) Special Repairs on 33 Wards.—The repairs needed for this purpose total \$15,703.30. From this we have deducted \$1,800.00, which repairs we expect to be able to make out of our repairs and improvement fund for the present biennium. We have also deducted \$2,497.50, the amount estimated for plumbing which is included in another item of the present budget. This leaves a balance of \$11,506.80. In order to reduce our request to the minimum, we divided this in two and we will endeavor to make at least 50 per cent of the needed repairs during the coming biennium. This will amount to \$5,700.00.
- (e) Farm.—A new brooder heater, consisting of a distillate stove and tank, \$50.00. We expect to build one new brooder house and scratching shed, 16 by 32 feet, which will accommodate 1,200 chickens. The ordinary cost would be \$100.00, but we feel we can probably make this out of old lumber.

Replacing plank floor in cow barn with concrete. The present floor is becoming rotten, is worn out, and the underpining is weak. This will have to be taken out by replacing with concrete. Our whole dairy barn floor will be of concrete which will assist greatly in cleanliness. The estimated cost for this improvement is \$300.00. A sleeping shed is very necessary, with a loft, for our cattle. The size of the proposed shed is 60 by 100 feet, and will accommodate about 100 head from our dairy herd; \$800.00 is the estimate for this improvement. Also, a sleeping shed for the young stock at \$300.00 is desired.

Also, a three-stall hospital for cattle, size 24 by 72 feet, \$150.00. An increase is necessary in our calf barn. This will be an enlargement of our present calf barn which has a present capacity of 24 calves and consists of eight stalls, accommodating three calves in each stall. The enlargement requested will be 40 feet long by 16 feet wide, and will make room for eighteen additional calves in 6 stalls. The cost of this improvement will be \$200.00.

Twenty A-Shape Hog Houses for Swine.—These will be built on runners so a team of horses can drag the hog house around any place on the farm. These hog houses will accommodate one sow and litter. The present capacity of the farrowing houses is 36 stalls for 36 litters. During the past two years, we have initiated the curing of our own ham and bacon, and have been able to cure to date 905 pounds of ham at \$0.144, value \$130.32, and 1,055 pounds of bacon at \$0.1484, value \$156.56, or a total value of \$286.88. Our bill for ham and bacon for the year ending April 1st, 1916, was \$693.36 for ham and \$577.94 for bacon, or a total of \$1,271.30. We expect to increase our swine department and cure more of our ham and bacon and the improvement asked for is with this idea in mind. The expense will be \$300.00.

Wire Stock Fence.—Two thousand feet of poultry wire at four cents to five cents a foot, this to replace our present poultry wire which is rusty, and a few extensions. Total, \$100.00. Hog wire for new hog pasture, as the enlargement in the swine department will require more

pasture. This is rather expensive but necessary. The estimated expense is \$640.00.

This makes a total asked for the farm, under this heading of \$2.840.00.

- (i) Galvanized Iron Shingles. On two sections as per estimate of contracting firms amount to \$4,200.00. The present roofing over these two sections is composed of tin shingles, 26 or 29 years old. Elsewhere over our buildings the shingles are of galvanized iron. These tin shingles have been in place a long time and are rusted through. About a year ago they were repainted and the leaks were covered with canvas in very many places. It is not thought that this roof will last through another biennium. Inasmuch as these roofs each cover a section of our main building, three wards to a section, a leaky roof can do a great deal of damage.
- (j) Painting These Shingles.—Estimated cost is \$300.00, making a total of \$4.500.00 for this improvement.
- (k) New Irrigation System.—For the farm, as per engineers' estimate, these engineers being employed by the State of Washington Public Highway Commission. This engineering project will help to irrigate 23 acres already under irrigation, as well as 96 additional acres which have not been cleared. By making a few alterations the same scheme will irrigate 66 additional acres. In other words, it will eventually bring under water 162 acres at present unwatered. A great deal of the 66 acres mentioned in the engineers' report, dated February 13, 1915, has already been cleared and can immediately be put under water as soon as this project is allowed.
- (n) Repairs and Improvements for Four Cottages.—These cottages were originally constructed about 1845. It was our intention to ask the Board of Control for two new officers' cottages. These two cottages were to be built on the United States army barracks style. Each cottage would accommodate two officers and families. We estimated the cost of each cottage at \$4,500.00. However, the budget was getting so large we decided to make our old cottages do, and feel the amount of \$1,500.00 to repair same can tide us over for another two years and is a very modest estimate. An allowance of one cottage would be especially desirable, and if the scheme were adopted of providing one new cottage every two years, in eight years we would have these old worn-out structures replaced with modern buildings.
- 2. Unitemized.—Miscellaneous general repairs and improvements of the present buildings, machinery and equipment to cover items not itemizable and not customary maintenance charges; \$10,000.00 is requested for this purpose.

If the amount of building and repairs requested is to be done during the coming biennium, the number of items which we cannot foresee will be considerable and a great many adjustments will have to be made. For instance, in moving out of center the power house, which

is a veritable fire menace, and the laundry, the carpenter shop and the tin shop, this room will be utilized by making it over into a temporary central dining room and industrial room. The expense will consist of laying new floors and possibly some new equipment for this purpose. Among the miscellaneous general repairs and improvements charged in the last two years, we might mention hydrants, all sorts of plumbing materials, electrical equipment, roofing, valves, screens, steam-fitting appliances, locks, hardware of all kinds, repairs to engines and boilers, belting, awnings, leather, lime and cement in large quantities, paints and oils, glass, bolts, nails and wire, pipe of different kinds, lumber, shingles, gaskets, sand, gravel, plaster, brick, tile and fire brick, repairs to hydrotherapy, fences of different kinds (wire, poultry, hog fences, etc.), wall paper, architects' and engineers' plans, repairs to scales, iron paint, laths, gutter pipe, etc.

#### 6. New Buildings:

1. Receiving Hospital.—One receiving hospital and infirmary, two wings and central building and basements, as per architects' plans and estimates, to accommodate 200 patients. This will include four psychopathic wards and two wards on the roof for tubercular and convalescent patients. The estimate for this portion of the new psychopathic hospital is \$168,000.00.

The hospital at Fort Steilacoom was never complete as an entity. Receiving wards and hospital wards were never built for such purposes, but some of the ordinary wards have been utilized in the past and it has always been the hope that at some time, proper receiving wards and hospital wards would be erected. This want is imperative at the present time, and if we are to keep pace with the modern treatment of the insane, it is essential. These buildings are erected in other states south of us—Oregon, where well-equipped receiving hospitals have been built, and to the north of us, in British Columbia, where fine receiving hospitals have been erected. Whatever can be done in the way of treatment to relieve and cure the insane is accomplished best in these buildings.

The present plans consist of four wings, a total estimated cost of \$280,000.00, taking care of, when finally completed, 400 patients. We are asking that two wings and a central building be allowed at the present time.

2. Detached Power House.—Including removal of the boilers and machinery. This power house will include the tin shop, carpenter shop, plumbing shop, machine shop and generators. The estimated cost for this purpose is \$52,000.00. In taking this matter up with the Board, it had been previously estimated that \$45,000.00 would cover this purpose, but the architects notified us that if we are to have a brick smokestack and a steel frame, up-to-date coal handling plant, \$7,000.00 should be added, or if we will be content with a frame building in place of a reinforced cement structure, a great deal could be deducted, but of course, the fire hazard would be great.

- 3. New Laundry Building and Sterilizing Washer.—The necessity for this building is apparent to anyone who has visited the hospital. It should be built large enough to take care of the present and an increased future population. We desire to have in this new building sterilizing washer and a large sterilizer. The sterilizing washer will cost in the neighborhood of \$2,000.00. We are not asking for the sterilizer at this time, but in erecting the building room will be left so that it can be added at some future time. Local architects have made plans and estimates for this structure. The total cost, including sterilizing washer, is \$20,000.00—\$18,000.00 without the washer. We will place in this building our present laundry equipment, some of which is in excellent condition. As future equipment is installed it will probably be arranged to be operated by electrical power.
- 4. Supterintendent's Cottage.—We have made various estimates for this cottage. The Superintendent's cottage should be large. Oft-time the whole Board of Control and the secretary visit the hospital, and we have numerous other state officers at the hospital who are taken care of at the Superintendent's home. Ten thousand dollars is the amount requested for this purpose. The architects have recommended that with \$12,000.00 we would have a complete structure.

#### 7. Farm:

1. One Modern Creamery.—As per estimate of the Creamery Package Manufacturing Company, of San Francisco, California.

Our present dairy herd produces between 950 and 2,330 pounds of milk a day. At the present time we are arranging to increase the number of our dairy herd by 26 pure-bred cows, and inside of a year the estimate of milk just given will be materially increased. There is no reason why a certain percentage of this milk should not be separated and the butter fat be used for making butter. On a very conservative estimate, we can make at least half of the butter consumed, and if conditions are at all favorable, possibly all of it could be produced on the grounds. From October, 1914, to October, 1915, the total butter bill was \$8,057.24. From October, 1915, to October, 1916, \$7,663.84, an average of \$655.00 per month the past two years. We consume at present 550 pounds weekly or about 80 pounds a day, and in the past two years the price has varied from 25 cents to 35 cents per pound.

In view of the fact that we have at present part of our dairy herd that have reacted to the tuberculin test, it will be necessary to pasteurize the milk from these cows, and a pasteurizer will cost about \$270.00, and the boiler for this milk which will cost \$200.00. These are included in the estimate which has been submitted by the Creamery Package Manufacturing Company. Their estimate totals for creamery machinery equipment \$724.55. A vertical boiler \$200.00 extra, or a total of \$924.55. We feel that for about \$670.00 we can erect a building suitable for our purposes.

The total estimate for the creamery is \$1,600.00.

2. Two Silos and Equipment.—One thousand two hundred dollars. That we can raise plenty of corn for these silos has been demonstrated in the past two years.

In making out this budget we have omitted the estimate for remodeling the main hospital building, including the amusement hall or auditorium. Our present auditorium accommodates only 452 and we need one to accommodate at least 900 or 1,000 patients. In rebuilding center, the commissary department, kitchen, bakery and refrigerating plant would be remodeled. A central dining room should be established for a large portion of the patients, which would reduce the per capita cost. The offices in the administration building would be increased in number and enlarged, as those at present are entirely inadequate. Drug store, post office, accounting department with vaults, record rooms, visitors' reception rooms, X-ray department, steward's and physicians' offices were included in this estimate. The architects' estimate for this purpose varied from \$187,000.00 to \$310,000.

We have felt that by removing the power house from center and the laundry, as asked for in this budget, and also removing the carpenter shop, machine shop, tin shop, this space could be temporarily utilized and could be rebuilt by some future appropriation of the legislature.

We have also had estimates made for an automatic telephone system. This amounted to \$7,000.00. Also, a sprinkler fire protection system, the total estimate for the latter being \$28,000.00. These have not been included in this budget, but we hope this can be presented at some future time.

Respectfully submitted,

WM. N. KELLER, Superintendent.

SHOWING MOVEMENT OF POPULATION BY MONTHS FOR THE YEAR OCTOBER 1, 1914, Table No. 1.

TO SEPTEMBER 30, 1915.

		₽ P	ADMITTED	LED							<b>P</b>	DISOHARGED	IAB	ED						
MONTHS	For First Time		Read- mitted		Trans. from Other Institu- tions	1 (	By Order of Court		Recovered	Im- proved	<b>8</b> .	Unim- proved		rans. North Iospit	P T D	Trans. to Trans. to Northern Eastern Hospital Hospital	 Deported by Federal Govern- ment		Died	Dally Average
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October, 1914 November, 1914 December, 1914 January, 1916 March, 1916 Mar, 1916 Mar, 1916 June, 1916 June, 1916 August, 1916 August, 1916 September, 1916	S C ではかかはする路路を	<u> </u>	HDD081-40888	1001411   0014111		:: :::::    ::::::::::	1004H 004HH	19194644484464	© © № 104 10 10 10 10 10 10 10 10 10 10 10 10 10	0044 HFH00H40	80 FO 51 4 4 61 FO 14	- M - M - M - M - M - M - M - M - M - M	146	1 2 2 1 2 1 2 2 1 2 2 1 2 2 2 2 2 2 2 2	0.24 1	20 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> </u>	HHH 10000000000	1,449.12 1,469.13 1,469.19 1,832.26 1,882.26 1,469.88 1,419.88 1,400.88 1,888.48
Totals	345	22	4	<u>.</u> গ্ল	:		:	<del>\$</del>	8	8	73	<b>60</b>	<del>-</del>	88	8	:	 <b>61</b>	88	22	1,399.50

SHOWING MOVEMENT OF POPULATION BY MONTHS FOR THE YEAR OCTOBER 1, 1915, TO SEPTEMBER 30, 1916. Table No. 1-Continued.

	Daily Average		1,367.88 1,373.88 1,373.88 1,361.12 1,364.48 1,367.09 1,367.09 1,348.36 1,345.96 1,337.90 1,325.73	1 854 00
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	Sta Sta	W.	61	0
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	ted to	E.	-	0
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ADMITTED	Remit	W.		36
A	For First Time	E.	4210088113077	8
	ANE	M.	20 20 13 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	14.6
	MONTHS		October, 1915.  November, 1915 December, 1916 January, 1916 March, 1916 March, 1916 May, 1916 June, 1916 June, 1916 Juny, 1916 September, 1916 September, 1916	Tatala 181

Table No. 2.

ADMISSIONS, DISCHARGES AND DEATHS, PER CENT. OF RECOVERIES TO ADMISSIONS, AND PER CENT. OF DEATHS TO WHOLE NUMBER TREATED, FOR EACH YEAR SINCE THE OPENING OF THE HOSPITAL.

YEAR ENDING	Admissions	Whole Number Treated	Discharged—Recovered	Discharged — Not Recovered (Including Transfers to Other Hospitals and Deportations)	Died	Remaining	Increase	Decrease	Percentage of Recoveries to Admissions	Whole Number Treated
August 15, 1872	30 24 27	39 56 65	5 11 10	5 6	2 2 5	32 38 44	32 6 6		16.66 45.83 37.03	5.12 3.57 7.69
August 15, 1875	28	72	4	8	9	51	7		14.28	12.50
A CHIEFTISE TE	28 32	79 93	8 21	5 3	5	61 68	10		28.57 65.62	6.32
	40	108	16	4	13	75	7		40.00	12.00
August 15. 1879	32	107	15	10	7	75			46.87	6.54
August 18	33	108	9	4 2	9 5	86 96	11		27.27 61.36	8.3
	44 55	130	27 17	7	15	112	16		30.90	9.98
August 15, 1882	66	178	27	16	6	129	17		40.91	3.37
August 15, 1883	72	201	35	8	22	136	7		48.61	10.94
	102	238	43	19 25	12 30	164 185	28 21		42.15 35.04	10.69
	117	281 289	41 37	22	11	219	34		35.57	3.80
	138	357	61	16	31	249	30		44.20	8.68
September 30, 1888 September 30, 1889	213	462	75	47	37	303	54		35.21	8.00
September 30, 1890	258	561 587	72 74	57 168	54 42	378 303	75	75	27.90 35.40	9.65
September 30, 1892	172	475	35	48	29	363	60		20.34	6.10
September 30, 1893	156	519	55	42	34	388	25		35.25	6.5
September 30, 1894	194	582	47	40	48	447	59		24.22	8.2
September 30, 1895 September 30, 1896	191 216	638 701	67 54	50 58	36 61	485 533	38 48		35.07 25.00	5.64 8.70
September 30, 1897	146	679	43	52	62	522	20	11	29.45	9.1
September 30, 1898	174	696	59	20	52	565	43		33.90	7.48
September 30, 1899	228	798	79	29	69	616	51	*****	34.65	8.70
September 30, 1900	209 231	825 924	46 66	27 27	59 82	693 749	77 56		22.01 28.57	7.18 8.87
September 30, 1901 September 30, 1902	264	1.013	85	73	92	763	14		32.19	9.0
September 30, 1908	233	996	110	-63	79	744		19		7.9
September 30, 1904	324	1,068	84	36	93	855	111	*****	25.92	8.70
September 30, 1905	346 358	1,201	117 71	83 92	80 81	921	66		33.81 19.83	6.6
September 30, 1906 September 30, 1907	420	1,455	187	46	124	1,008	63		44.52	8.5
September 30, 1908	538	1.636	199	84	136	1,217	119	+++++	36,99	8.3
September 30, 1909	564	1,781	175		152	1,352	135		31.02	8.5
September 30, 1910	508 576	1,950 2,030	191 171	148 259	157 157	1,454	102	11	31.93 29.68	8.0
September 30, 1911 September 30, 1912	613	2,056	165		157	1,556	113		26.91	7.6
ceptember on rorg	621	2,177	203	428	160	1,386		170	32.68	7.3
September no seed	641	2,027	212		153	1,501	115		33.07	7.5
September 30, 1915 September 30, 1916	586 278	2,087 1,814	78 85		170 137	1,536	35	78	13.31 30.57	8.1 7.5

Table No. 3.

SHOWING COUNTY RESIDENCE OF PATIENTS ADMITTED DURING THE BIENNIUM ENDING SEPTEMBER 30, 1916.

		ear Endi ember 30			ar Endin mber 30,	
COUNTIES	Male	Female	Total	Male	Fem <b>ale</b>	Total
Chelan Challam Clailam Claike Cowlitz Grant Grays Harbor Island Jefferson King Kitsap Kittstas Lewis Mason Pacific Pierce San Juan Skagit Skamania Skagit Skamania	5 19 7 16 2 5 159 10 2 2 2 83 1 11 11 2 2 2 2 8 3	2 2 2 5 2 5 5 7 7 2 37 1 7	2 7 24 9  21 2 5 255 16  17 2 4 120 2 188 235	8 7 1 21 30 30 15 4 54	1 4 8 9 25 1 3 3 11 1 3 3 36	12 10 1 30 555 1 66 266 1 7
Thurston Wahkiakum Whatcom	9 1 14	2 9 2	13 3 23 6	10 2	10	14
Yakima	393	193	586	167	111	22 278

Table No. 4.
SHOWING CIVIL CONDITION OF PATIENTS ADMITTED DURING
THE TWO YEARS ENDING SEPTEMBER 30, 1916.

CIVIL CONDITION		ear Endir ember 30			ar Endin mber 30,	
OTTI OURBITION	Male	Female	Total	Male	Female	Total
Married	140	137	277	66	68	129
Single Widowed	220 20	10	260 30	87 7	81 13	118 20
Divorced	5 8	6	11 8	6 1	4	10 1
Totals	393	193	586	167	111	278

Table No. 5.

SHOWING NATIVITY OF PATIENTS ADMITTED.

Native born   195     Poreign born   186     Armenia   1     Austria   9     Austria   4     Austria   1     Canada   12     China   8     Denmark   5     Engiand   15     Finland   17     Prance   3     Germany   15     Greece   4     Holland   1     Hungary   1     India   1     India   1     Ireland   8     Italy   5     Japan   2     Montenegro   25     Nova Scotia   2     Poland   1     Portugal   1     Prussia   1     Roumanis   1     Russia   8     Scotland   2     Spain   1     Spain   1     Sweden   28     Sweden   35     Armenta	122 70	Total 817 255	Male 89 74	Female	Tota
Foreign born         186           Armenia         1           Austraia         9           Austria-Humgary         9           Belgium         1           Bulgaria         1           Canada         12           China         8           Denmark         5           England         15           Finland         17           France         8           Germany         15           Greece         4           Holland         1           Hungary         1           Iceland         1           India         8           Italy         5           Japan         2           Montenegro         2           Nova Scotia         2           Poland         1           Prussia         1           Roumanis         1           Resida         8           Scotland         2           Servia         1           Spain         1	70 2	255		700	
Armenia 1 Australia 9 Austria-Hungary 9 Belgium 12 Canada 12 China 8 8 Denmark 5 England 15 Finland 17 Prance 8 8 Germany 15 Greece 4 Holland 1 Hungary 1 Iceland 1 India 1 Ireland 8 Italy 5 Japan 2 Montenegro 2 Nova Scotia 2 Poland 1 Portugal 1 Portugal 1 Portugal 1 Portugal 1 Portugal 1 Portugal 1 Portugal 1 Portugal 1 Portugal 1 Portugal 1 Roumania 1 Roumania 1 Roumania 1 Roussia 8 Scotland 2 Servia 1 Spain 1	2		74		15
Australia Austria 9 Austria-Hungary Belgium Bulgaria 1 Canada 12 China 8 Denmark 55 England 15 Finland 17 France 8 Germany 15 Greece 4 Holland 1 Hungary 1 Ireland 8 Italy 5 Japan 2 Montenegro Norway 25 Nova Scotia 2 Poland 1 Prussia 1 Roumania 1 Roumania 1 Roumania 1 Roumania 2 Servia 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1 Spain 1				41	11
Austria 9 Austria-Hungary 9 Belgium 1 Canada 12 China 8 Denmark 5 Engiand 15 Finland 17 France 8 Germany 15 Greece 4 Holland 1 Hungary 1 Ireland 9 Italy 5 Japan 2 Montenegro 5 Nova Scotia 2 Poland 1 Prugal 1 Prugal 1 Prugal 1 Fortugal 1 Portugal 1 Portugal 1 Fortugal				• • • • •	
Austria-Hungary Belgium Bulgaria 1 Canada 12 China 8 Benmark 5 Engiand 15 Finland 17 France 3 Germany 15 Greece 4 Holland 1 Hungary 1 Ireland 8 Italy 5 Japan 2 Montenegro 2 Norway 25 Norway 25 Norway 25 Norway 25 Norway 25 Norway 25 Round 1 Portugal 1 Portugal 1 Portugal 1 Portugal 1 Portugal 1 Roumania 1 Roumania 1 Roumania 1 Roumania 1 Roumania 8 Sectland 2 Servia 8 Sectland 2 Servia 1 Spain 1			1		• • • • •
Belgium         1           Bulgaria         1           Canada         12           China         8           Denmark         5           England         15           Finland         17           France         3           Germany         15           Greece         4           Holland         1           Hungary         1           Iceland         1           India         8           Italy         5           Japan         2           Montenegro         2           Nova Scotia         2           Poland         1           Portugal         1           Portugal         1           Roumania         1           Roumania         8           Scotland         2           Servia         1           Spain         1	12	11	4	1	
Bulgaria         1           Canada         12           China         8           Denmark         5           England         15           Finland         17           France         8           Germany         15           Greece         4           Holland         1           Hungary         1           Iceland         1           India         1           Ireland         8           Italy         5           Japan         2           Montenegro         2           Nova         Scotia         2           Poland         1           Portugal         1           Portugal         1           Portugal         1           Russia         8           Scotland         2           Servia         1           Spain         1	12	• • • • • • •	1		
Canada         12           China         8           Denmark         5           England         15           Finland         17           France         3           Germany         15           Greece         4           Holland         1           Hungary         1           Iceland         1           India         8           Italy         5           Japan         2           Montenegro         2           Nova Scotia         2           Poland         1           Portugal         1           Porussia         1           Roussia         8           Scotland         2           Servia         8           Spain         1	12	• • • • • • • • • • • • • • • • • • • •		1	
China         8           Denmark         5           England         15           Finland         17           Prance         3           Germany         15           Greece         4           Holland         1           Hungary         1           Iceland         1           Ireland         9           Italy         5           Japan         2           Montenegro         25           Nova Scotia         2           Poland         1           Prussia         1           Roumania         1           Russia         8           Scotland         2           Servia         8           Spain         1		1		7	••••
Denmark         5           England         15           Finland         17           France         3           Germany         15           Greece         4           Holland         1           Hungary         1           Iceland         1           India         8           Ireland         8           Italy         5           Japan         2           Montenegro         2           Nowa Scotia         2           Poland         1           Portugal         1           Prussia         1           Roumania         1           Russia         8           Scotland         2           Servia         1           Spain         1	~~	24	10	7	:
England   15	• • • • • • • • • • • • • • • • • • • •	3	1		
Finland	1	8	8	1	l
Prance         8           Germany         15           Greece         4           Holland         1           Hungary         1           Iceland         1           India         8           Ireland         8           Italy         5           Japan         2           Montenegro         2           Nova Scotia         2           Poland         1           Portugal         1           Prussia         1           Roumania         1           Russia         8           Scotland         2           Servia         1           Spain         1	6	21	2 7	4	Ι.
Germany	7	24		5	
Greece	•••••	8	1 1	1	
Holland	12	27	16	4	
Hungary       1         Iceland       1         India       3         Ireland       8         Italy       5         Japan       2         Montenegro       25         Nova Scotia       2         Poland       1         Portugal       1         Prussia       1         Roumania       1         Roussia       8         Scotland       2         Servia       1         Spain       1	1	5	1	1	1
Iceland	1	2	1	2	
India	1	1			
Ireland	1	2			
Italy     5       Japan     2       Montenegro     25       Nowa Scotia     2       Poland     1       Portugal     1       Portugal     1       Roussia     1       Roussia     8       Scotland     2       Servia     1       Spain     1	• • • • • • • • • •				• • • •
Japan         2           Montenegro         2           Nova Scotia         2           Poland         1           Portugal         1           Prussia         1           Roumania         1           Russia         8           Scotland         2           Servia         1           Spain         1	3	11	1	8	
Montenegro   25	• • • • • • • • •	5	8	1	
Norway         25           Nova Scotia         2           Poland         1           Portugal         1           Prussia         1           Roumania         1           Russia         8           Scotland         2           Servia         1           Spain         1	• • • • • • •	2	2		1
Nova Scotia         2           Poland         1           Portugal         1           Prussia         1           Roumania         1           Russia         8           Scotland         2           Servia         1           Spain         1	• • • • • • • • • • • • • • • • • • • •	•••••	1	<u>-</u>	
Poland       1         Portugal       1         Prussia       1         Roumania       1         Russia       8         Scotland       2         Servia       1         Spain       1	9	34	4	5	
Portugal         1           Prussia         1           Roumanis         1           Russia         8           Scotland         2           Servia         1           Spain         1	1	3			
Prussia       1         Roumania       1         Russia       8         Scotland       2         Servia       1         Spain       1	• • • • • • • • •	1	1		
Roumania       1         Russia       8         Scotland       2         Servia       1         Spain       1	• • • • • • • • • •	1			
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Seotland         2           Servia         1           Spain         1	· · · · · <u>·</u> · · ·	1	···· <u>·</u> ··		
Servia         1           Spain         1	1	9	1		ł
Spain 1	5	7	1	1	
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SWEGER	···· <u>·</u> ···	1	·····	1	· · · ·
	7	42	11	6	
Switzerland 5	• • • • • • • • •	5	2		ļ
Turkey			1		1
nknown 18	<u>.</u>	14	4		l
Totals	1	586	167	111	2

TABLE SHOWING NATIVITY OF PARENTS OF PATIENTS ADMITTED AS COMPARED WITH CENSUS OF 1910, STATE OF WASHINGTON.

	Year	Ending	Septemb	Year Ending September 30, 1915	Yea	r Ending	Septem	Year Ending September 30, 1916		Percentage Total
	Male	Female Total	Total	Percentage to Whole Number of Admissions	Male	Male Female Total	Total	Percentage to Whole Number of Admissions	Percentage to Whole to Whole Admissions Number of Ending Admissions Admissions Beanium of Ending Septembr 30 1916	9. 8. 8. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.
Native born of native parentage	167	105	272	17.97	28	8	100	39.20	44.00	8.28
Native born of foreign or mixed parentage	88	17	45	7.67	8	8	28	17.98	10.90	28.5
Foreign born of foreign parentage	186	20	255	48.51	74	4	115	41.36	42.82	21.7
Nativity unknown	18	1	14	2.30	•	:	•	1.44	2.08	
Totals.	88	193	989		167	H	278			

Table No. 7.

SHOWING OCCUPATIONS PRIOR TO ADMISSION OF PATIENTS ADMITTED.

		ear Endir ember 80			ar Endin mber 30,	
OCCUPATIONS						
	Male	Female	Total	Male	Female	Tota
AGRICULTURAL AND BURAL	41		41	27		2
Clearing land	1		1			
Dairyman	2		2	<u></u>		
Farmer Florist	87		87	25		2
Gardener	i		1	2		
. COMMERCIAL AND MERCANTILE	22	5	• 27	12	2	1
Agent, insurance	4		4	2 3		
Brewer	*			ı		
Broker	1		1			<b> </b> -
Buttermaker	1 1		1	1		Ì
Clerk	2	4	6	2	1	
Collector	ī		i	<del>.</del>		
Fish packer	1 2	• • • • • • • • • •	1 2			• • • • •
Merchant	8		3	i		
Salesman				2	1	
Salesman, clothing	2 2		2 2			• • • • •
Saloonkeeper	2		2			
Solicitor		1	1			
I. MANUFACTURING AND					İ	
MECHANICAL  1. Building Trades  Basket maker	85	1	86	41	2	4
1. Building Trades	24 1	• • • • • • • • • • • • • • • • • • • •	24 1	11		1
Bridge builder	i		i			
Cabinet maker	ī		ī			
Carpenter	13 2		13 2	7		
Mason	ž		2	1		
Painter	2		2	1		١
Pile driver	1		1	1		1
Plumber Ship builder	1		1	·····i		
Stone mason	1		1	ļ <del>.</del>		<b> </b>
2. Mining	6		6	4		
Miner 3. Food Products	6 9	1	6 10	5	2	]
Baker	2	[ <u>-</u>	2	3	l	
Confectioner	1	<u>.</u>	1	<u>-</u>		
Cook	6 8	1	7 8	2 6	2	
Boilermaker				l ĭ		1
Blacksmith	2		2	1		1
Machinist	5		5	2 2		
Steamfitter	1		i	J		1
5. Leather	1		1			
Shoemaker	1 29		29	13		
Shingle weaver	4		4		:	[']
	_				1	
Woodsman	25		25	13		
Woodsman 7. Metals Other Than Iron 8. Paper and Printing	1		1	13		

Table No. 7—Continued.

# SHOWING OCCUPATIONS PRIOR TO ADMISSION OF PATIENTS ADMITTED.

		ear Endi ember 30			ar Endin mber 30,	
OCCUPATIONS	Male	Female	Total	Male	Female	Total
III. MANUFACTURING AND  MECHANICAL—Continued:  9. Textiles Tailor  10. Miscellaneous Cigar maker Engineer, gas Engineer, stationary Upholsterer	3 3 4 1 1 1		3 3 4 1 1 1	1 1		1 1
IV. COMMUNICATION AND TRANSPORTATION  1. Telegraph and Telephone. 2. Steam Raliroads Brakeman Engineer Fireman Switchman Porter 3. Other Occupations Driver laundry wagon Fireman, marine Freight handler Newsboy Jitney driver Oiler on steamboat Route agent, express company Shipping clerk Teamster	1 1		23 3 9 3 3 2 1 11 1 1	9 1 2 1 6 1 1		1
V. PROFESSIONAL Artist, landscape Attorney College professor Druggist Journalist Justice of peace Missionary Musician Newspaperman Nurse Physician Spiritualist Student Taxidermist Teacher	15 1 1 1 8 8 1 2 1 1 1	12 1 1 3 1 1 5	27 1 1 3 1 1 1 2 4 1 1 2 1 6	1	1 2	
VI. CLERICAL Accountant, expert Bookkeeper Clerk Librarian Stenographer		3 1 1	9 1 5 2	2	2 1	



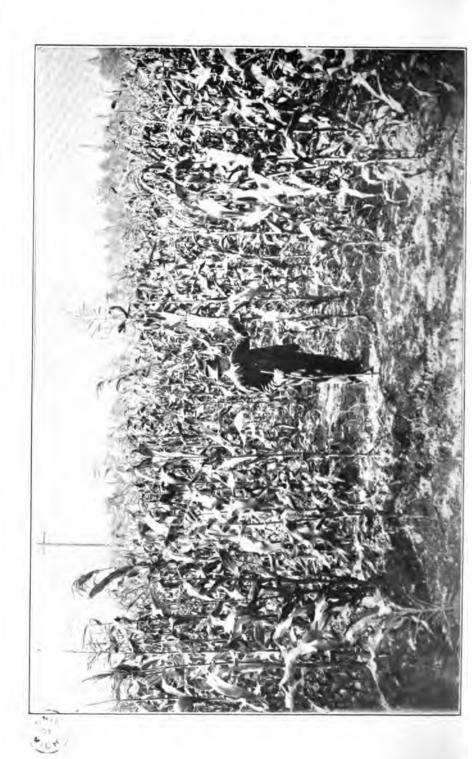


Table No. 7—Continued.

## SHOWING OCCUPATIONS PRIOR TO ADMISSION OF PATIENTS ADMITTED.

OCCUPATIONS		ear Endi ember 80			ar Endin mber 30,	
OCCUPATIONS	Male	Female	Total	Male	Female	Total
VII. DOMESTIC AND PERSONAL	7	152	167 7	1	92	98
Dishwasher Domestics Furnace tender Dyer	····i	22	1 22 1 1		18	18
Janitor Houswives Laundres Seamstres Shoeshiner		122 1 5	1 122 1 5	1		70 8 1
Walter or waltress  VIII. MISCELLANEOUS	4	. 2	6			
Cowboy Deck hand Fisherman	i		168	62 1 1 2		62 1 1 2
Guard Laborer Longsboreman Night watchman	1 158 2 1		1 158 2 1	54		54
Sallor Section foreman Ship fitter	5 1 1		5 1 1	4		4
80dder	2 1	20	2 1 81	10	10	20
X. UNKNOWN	7		7			
Totals	398	198	586	167	111	278

Table No. 8.

SHOWING ASSIGNED CAUSES OF INSANITY OF PATIENTS ADMITTED.

0.177979		ear Endi ember 30			ar Endin mber 30,	
CAUSES	Male	Female	Total	Male	Female	Total
I. CONGENITAL:			_			
Congenital Defective development Heredity	6 8 19	1 1 13	7 4 32	1 7	2 15	1 22
II. DISEASES:						
1. General Diseases; a. Epidemic:	,		1	ļ		
Measles Typhoid fever	2	1	8		1	i
b. Other General: Senlity		8	27	6	5	11
Severe headaches					1	,
ApoplexyBrain tumor	1		1	2	2	4
Cerebral hemorrhage	1	7	1	1 4	1 3	2 7
Epilepsy Paralysis	1	1	11 2 1	· · · · · ·	ļ	
Paresis Unstable nervous system					1	1
Softening of the brain 3. Diseases of the Circulatory System:					1	1
Arteriosclerosis		1	5	1	1	1 1
4. Diseases of the Respiratory System: Tuberculosis, pulmonary				3	<b> </b>	3
Tuberculosis, pulmonary 5. Diseases of the Digestive System: Intestinal trouble					1	1
6. Diseases of the Genito-Urinary System:					ļ	
a. Male Organs:	29		29	14	ļ	14
b. Femal Organs; Menopause	<b> </b>	7	7		4	4
Menstrual difficulty Ovary trouble	1	1	1 1			1
Pelvic organs, disorder of Venereal disease		2 3	2 3	 		
7. Puerperal Condition: Childbirth		10	10		2	2
Pregnancy Puerperal		5	5 4		2	3
8. Ill-Defined Diseases: Ear trouble	l	1	1			
Ill health	2	2	4		1	1
III. EXTERNAL CAUSES:		1	1			
Confinement in jail Exposure	1		1			
Fail			i	2		2
Hypnotism Injury	1		î 5	2		
Injury to head	8	3 1	11 5	5		5
Lack of employment	1	i	2 1			
Loss of sight and hearing	1		1			1:::::

Table No. 8—Continued.

SHOWING ASSIGNED CAUSES OF INSANITY OF PATIENTS ADMITTED.

		ear Endi: ember 80			ar Endin mber 30,	
CAUSES	Male	Female	Total	Male	Female	Total
III. EXTERNAL CAUSES—Continued: Operation, surgical Overstudy Overwork Solitude Starvation Strychnine poison Sunstroke IV. EMOTIONAL: Business difficulties	2	4 1 1	1 1 9 2 1 1 2	2 8	1	2 8 8 3
Depression Disappointment Domestic troubles Financial difficulties Grief Love affair Religious excitement Shock Spiritualism Worry	3 3 4	1 1 2 3 4	1 4 5 7	2 1 1	3 1 4	3 3 4 1 2
V. MORAL:  1. Use of Drugs and Alcoholics:     Alcohol     Drug babit 2. Sexual Perversion:     Immoral living     Masturbation     Sexual perversion		8 4 2	47 8 2 2 2	16 5 1	3	5 1
VI. UNKNOWN	197	81	278	77	42	119
Totals	398	198	586	167	111	278

Table No. 9.

SHOWING FORMS OF MENTAL DISEASES OF PATIENTS ADMITTED DURING THE BIENNIUM ENDING SEPT. 30, 1916.

		ear Endi			ar Endin mber 30,	
MENTAL DISEASE	Male	Female	Total	Male	Female	Total
I. INFECTION PSYCHOSES:  a. Fever delirium b. Infection delirium c. Post-infection delirium						
II. EXHAUSTION PSYCHOSES:  a. Collapse delirium b. Acute confusional insanity (amentia) c. Acquired neurasthenia (chronic nervous exhaustion)	<b></b>	1 1	1 1		2	2
III. INTOXICATION PSYCHOSES: a. Alcoholism: Acute alcoholic intoxication Chronic alcoholism Delirium tremens Korsaskow's psychosis Acute alcoholic hallucinosis Alcoholic hallucinatory dementia Alcoholic paranoia Alcoholic paranois Alcoholic paresis Alcoholic paesis Cocainism d. Heroinism	5 27 6 1	6	83 6 1	8		10
IV. THYROIGENOUS PSYCHOSES: a. Myxoedematus insanity b. Oretinism c. Exophthalmic		1 1	1 1			
V. DEMENTIA PRAECOX: Hebephrenic form Catatonic form Paranold form  VI. DEMENTIA PARALYTICA	28 11	46 12 22	155 35 38	21 10 15	18 2 10	89 12 25
VII. ORGANIO DEMENTIAS: Huntington's chorea Multiple sclerosis Oerebral syphilis Tabetic psychoses Arteriosclerotic insanity Oerebral tumor Brain abscess Oerebral apoplexy Oerebral trauma	5 1 8	2		2	1 1	
VIII. INVOLUTION PSYCHOSES: a. Melancholia b. Pre-senile delusional insanity c. Senile dementia	7 4 51	618	13 4 69	7	1 15	34

Table No. 9—Continued.

SHOWING FORMS OF MENTAL DISEASES OF PATIENTS ADMITTED DURING THE BIENNIUM ENDING SEPT. 30, 1916.

		ear Endi mber 30			er Endin mber 30,	
MENTAL DISEASE	Male	Female	Total	Male	Female	Total
IX. MANIC-DEPRESSIVE INSANITY:  Manic states  Depressive states  Mixed states	32	21 28	44 60 8	25 19 2	26 14 1	51 38 3
I. PARANOIA		8	3	1		1
XI. EPILEPTIC INSANITY	11	7	18	7	4	11
III. THE PSYCHOGENIC NEUROSES:  a. Hysterical insanity b. Traumatic neurosis c. Dread neurosis			2		1	1
XIII. CONSTITUTIONAL INFERIORITY:	1	8	4	2	8	5
XIV. DEFECTIVE MENTAL DEVELOPMENT: Imbecility		2	5	1	· · · · · · · · · · · · · · · · · · ·	1
XV. NOT INSANE		•••••		1		1
Totals	398	198	586	167	111	278

Table No. 10.

for the Year 1916 to Date, With a View of Showing the Decrease in Admissions Due to the Operation of the Dry mitted for the Year 1916 to Date, and Sub-Table "B" Shows the Months in Which the Drug Cases Were Admitted Comparative Statement Showing the Number of Patients (Male and Female) Admitted to the Western State Hospital at Fort Steilacoom, Washington, Whose Forms of Mental Diagnoses Were Those of the Alcoholic Types of Intoxication Psychoses, and the Number Admitted Addicted to the Use of Drugs, Commencing with January 1 and Including September 30, 1916.

INTOXICATION		1912			1913			1914			1915			1916	
636040161	Male	Female Total	Total	Male	Female Total	Total	Mak	Female Total	Total	Male	Female Total	Total	Male	Female Total	Total
Ohronic alcoholism	20.0	-	\$ 0	90		9 6	80	67	2	22	-	9			
Acute alcoholic hallucinosis	'ន		, 8	• <b>8</b>	10	. 25	ន	10	83	<b>8</b>	20	ᄧ	5 81 4 1	-	10
Archolic manufactury 7 7 7 Parcholic manufactury	-	i	-	:		:	-		-	<b>%</b> -	:	•-			
Alcoholic pseudoparesis								1	-	•		·			
Totals	\$	8	<b>æ</b>	17	10	33	88	7	\$	88	•	#	-	1	ю
Morphism and coenism 8 2 5 1 4 5	∞	61	2	-	-	2	**	-	10 64	-	4 1	•		1	-
Ocealnism Herolnism							' ! ! ! !								
Totals	•	63	10	-	-	10	9	-	1	9		9		1	1
Grand totals	3	م	83	83	6	15	88	80	47	4	8	22	+	61	8

SUB-TABLE "B."

	Male   Female   Total	1 1
i	Male	
	HINOM	March, 1916

Male   Female   Total	1.00	1
MONTH	January, 1916 March, 1916 August, 1916	Totals

SUB-TABLE "A."

Table No. 11.

SHOWING AGES ON ADMISSION OF PATIENTS ADMITTED.

A GPG		ear Endi ember 30		Year Ending September 30, 1916		
AGES	Male	Female	Total	Male	Female	Total
Under 15 years 15 and under 20 years 20 and under 25 years 25 and under 30 years 30 and under 35 years 35 and under 40 years 40 and under 45 years	10 25 41 61 58	2 21 29 23 25 25	12 46 70 84 88 75	2 5 15 18 24 28	17 8 18 12 12	2 5 82 21 42 40
45 and under 50 years	81 80 28 28 12	19 17 8 8 6	50 47 36 26 18	18 8 11 18 6 5	12 10 6 6 2	25 18 17 19 8
75 and under 30 years	13 7 2 8 2	5 2 2	12 4 5	1 1	3 1 1	2 1 1
Totals	398	198	586	167	111	275

Table No. 12.

NUMBER OF TIMES PATIENTS WERE ADMITTED.

TIMES ADMITTED		ear Endir ember 30			ar Endin mber 30,	
IMIN ADMITIE	Male	Female	Total	Male	Female	Total
Once Twice Three times Four times	346 36 8 1	171 19 3	517 55 11 1	155 10 2	99 12	254 22 2
Totals	2 898	193		167	111	278

Table No. 13.

SHOWING EDUCATION OF PATIENTS ADMITTED,

		ear Endi ember 30		Year Ending September 30, 1916			
EDUCATION OF PATIENTS	Male	Female	Total	Male	Female	Total	
Common school High school College Convent	12 5	166 17 1	528 29 6	158 5 4	97 10	250 15	
Private school Parochial school None	1	1 1	2 1	1			
Unknown		7	25	8	2	Ê	
Totals	898	198	586	167	111	278	

Table No. 14.

RURAL AND URBAN DISTRIBUTION OF PATIENTS ADMITTED

DURING THE BIENNIUM ENDING SEPTEMBER 30, 1916.

RESIDENT IN	Year Ending September 30, 1915				ar Endin mber 30,	
REGIDENT IN	Male	Female	Total	Male	Female	Total
Villages and towns of less than 2,000 population	58 25	84 11	92 36	52 7	36 5	87 12
Oities of 4,000 and under 8,000	16 54 72	11 11 88	27 65 105	10 25 42	11 13 25 22	21 38 67
City of Seattle, population 330,000 Residence unknown	159	98	252 9	24 7	22	46 7
Totals	898	198	586	167	111	278

### I. Cities of 4,000 and Under 8,000.

RESIDENT IN		ear Endir ember 80			ar Endin nber 30,	
REGIDENT IN	Male	Female	Total	Male	Female	Total
Anacortes Centralia Chehalis Ellenshuse	1 8	1 4 1	1 5 7	2	8	8 5
Elenaburg Olympia Port Townsend Physilinp Wenatchee	1 1	1	11 1 2	1	1 2 1	7 3
Totals	16	11	27	10	11	21

### II. Cities of 8,000 and Under 25,000.

RESIDENT IN		ear Endir ember 30			ar Endin mber 30,	
MEDIDANI IN	Male	Female	Total	Male	Female	Total
Aberdeen Bellingham Everett Hoqulam North Yakima Vancouver	18 4	1 5 8	5 13 21 4 4 18	8 4 8 5	3 4 3 3	11 8 11 8
Totals	54	11	65	25	18	38

Table No. 15.

SHOWING FORMS OF MENTAL DISEASES OF PATIENTS DISCHARGED DURING THE BIENNIUM ENDING **SEPTEMBER 30, 1916.** 

•		İ	Yea	E	ding	Sep	din	Year Ending September 30, 1915	161		-	!	ł	× ×	H.	Year Ending September 30, 1916	82	pten	<u>ة</u>	8	916		
MENTAL DISEASES	Recovered	vere	ا ج	Imp	Improved		n in	Unimproved Not Insane	2	ot II	Bane	l	ΔΟ.	Recovered	=	Improved	ved		n d	oved	Unimproved Not Insane	t In	Bane
	<u> </u>	- <u>F</u>	Ei	<u> </u>	M. F. T. M.	ا ن	<u>.</u>	7. T. M.	<b>Z</b>		Ei	į	p.i	Fi	į	E.	Fi	į	ß.	Ei.		<b>X</b>	Ţ.
Infection Phychoses: Fever delirium Infection delirium Post-infection delirium		- :::		- : : : : : : :				<u> </u>		:::						<u>::::</u>		<u> </u>					<u>:::</u>
Exhaustion Phychoses: Collapse delirium Acute confusional insanity (amentia) Acquired neurathenia (chronic nervous exhaustion)		<u> </u>						1 1 1 1	- : ! - !	<u> </u>		<u> </u>								1111	<u> </u>		
Autoholic microsterion Phychoses:  Alcoholic microsterion  Chronic alcoholism Chronic alcoholism Chronic alcoholism Chronic alcoholism Chronic alcoholism Korsakow's psychosis Acute alcoholic parceis Acute alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoholic parceis Alcoh			2 4 8		6 23 1 1			6 28 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		: : : : : : : : : : : : : : : : : :		7 7 7	2 01 L C	21 1 20 1 1 1 1 1 20 20 20 20 20 20 20 20 20 20 20 20 20	6 94 1 89 1 89 1 89 1 89 1 89 1 89 1 89 1	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10	t- 80			1 II II II II II II II II II II II II II		

SHOWING FORMS OF MENTAL		EA	8 .	SE!	75	E W	E N	OF PATIENTS DISC SEPTEMBER 30, 1916.	2 <b>2</b>		<b>A</b> .	DISEASES OF PATIENTS DISCHARGED DURING THE SEPTEMBER 30, 1916.		Ē	0	Ĭ.	<b>.</b>	Z	BIENNIUM ENDING	Σ	Z	Z
			Year	Fo	au	Sept	Que	Year Ending September 30, 1915	1913	1	!			1	ם	Year Ending September 30, 1916	<b>Se</b>	te ii	15 E	E	ا و	
MENTAL DISEASES	Rec	Vere	Recovered Improved Unimproved Not Incane	Impr	De Ao	5	duju	rove	Z	ot In	Ane		00 Ve	Reco vered		Improved Unimproved Not Insane	8	Unin	ordu	8	Not	Insa
	K. F.	Fi.	T. M. F. T. M. F. T. M. F. T.	<del>-</del>	<u>.</u>	<b>≱</b>	<u>~</u>	H	<del></del>	<u>F.</u>	Ė.	į	<u>F</u>	Ei Bi	×	M. F. T. M. F. T. M. F.	H	į	ß.	Ę	j i	F.
Brought forward	17	9	83	<del>  :</del>	<u> -</u> 	1-	:	<b>-</b>	1:	<u> </u> :	<u>                                   </u>	12	*	8	80	01	2	İ		†:	ŤĖ	<u>                                   </u>
Thyrolgenous Phychoses: Myxcodematous insanity Cretinism Exophthalmic	111			- : : :							;;; ;;; ;;;		- : :-	1	:::	-				<del></del>		
Dementia Praecox: Hebephrenic form Catatonic form Paranoid form	87	61 64	; 8≈ :	7 2	8 2 2				<u>:</u> :::			61.4	••	82.	13	∞ ⊶ ≠	122	10 80	<del>::</del> :	ro .es		
Dementia paralytica	- 3	<u>:</u>	<u>:</u>			61	<del>-</del>	-:	_ <u>:</u>	-	_ <u>:</u>	:			1	4	•		:	<u>:</u>		<u>:</u> :
Organic Dementias: Huntingdon's chorea Multiple selerosis Cerebral syphilis Tabette psychoses Arterloselerotic insanity Cerebral tumor Brain abeces	1111111			::::::::::::::::::::::::::::::::::::::								2 1		H 63	- 61	8	- 01					
Cerebral trauma	83		<u>.                                    </u>		67	64	<u>: :</u>					8		64				<del>: :</del>	<u>: :</u> : :		<del>: :</del>	<u>: :</u> : :
Involution Psychoses: Metancholis Presentic delusional insanity Senile dementia	11		- <u>:</u> 		64 : 1-1	4-10	Ć1	64				61			- : : -	- E	- 0	64	61			
Forward	8	2	8	10	1 80	<u> </u>	80		<u> </u> :	-:	60		<u>  </u>	85 18 48 49 21 70 10 10	3	2	8	ļ s	:	2	十	$\dagger$

SHOWING FORMS OF MENTAL DISEASES OF PATIENTS DISCHARGED DURING THE BIENNIUM ENDING SHOWING FORMS OF MENTAL DISEASES 30, 1916. Table No. 15-Continued.

				SEPIEMBER 30, 1910.	<u> </u>	5	n K	- S														
			rear	Year Ending September 30, 1915	82	epter	nber	38,1	915					ear	Endi	Year Ending September 30, 1916	epter	ם	88	916		
MENTAL DISEASES	Beco	Recovered		Improved Unimproved Not Insane	Deve	<u>B</u>	mpr	peac	Not	Ins	e l	Reco	Reco vered	<del></del>	[m	Improved Unimproved Not Insane	_5	ğ	O Ved	ž	4	впе
		<u>F</u>	H.	Ä.	<u> </u>	į	E.	Ę	×	E.	E	į	Pi.	- <u>-</u> -	- i	# #	ä	<u>Fi</u>		×i	p.;	Ei
Brought forward	88	9	8	8	9	80	:	80	1		<u> </u>   :	88	83	8	12 21	2	2	<u> </u>	2			
Manic Depressive Insanity: Manic states Depressive states Mixed states		• o o	<u>: : : : : : : : : : : : : : : : : : : </u>	8181	410		:::			::::	- : : :	924	8 12 :	:		20	64		٥١ : :	_ ; ; ;		
Paranola		_ <u>:</u>	<del>:</del>	_:			<u>:</u>	:	-			<u> </u>	÷	÷	- :		<u>:</u>	<u>:</u>		<u>:</u>		_:_
	-		-	~~		_ <u>:</u>		:	-	- <u>:</u>		<u>-</u> ;-	- <u>:</u> -:	÷	<u>.</u> [	61		<u>:</u>	<u>:</u>	<u>:</u>		<u>:</u>
The Psychogenic Neuroses: Hysterical Insanity Traumatic neurosis Dread neurosis		<u>: : :</u>	– ∷ <u>÷</u>		:::		:::	:::		- :::			1	-:::		- : :		:::		:::		:::
Constitutional inferiority		<u>:</u> :	- :	-	-	<u>:</u>	:	:		÷	<u>:</u>	i	<u>:</u>	<u>:</u>	-	1	_	_:_		<u>:</u>		<u>:</u>
Defective Mental Development: Imbelicity	_ <u>;</u>	<u>:</u> 	<u>:</u>		<u>:</u>		:	:		i	<del></del>	-	_ <u>:</u>		_ <u>:</u>				:	:		:
Not insane		$\frac{\cdot}{\cdot}$	÷	<del>-</del>	<u>:</u>	:	<u>:</u>	:	- :	-	<u>:</u>		<u>:</u>	$\div$	÷	-	<u>:</u>	_ <u>:</u>	<u>:</u>	:	<u>:</u>	<u>:</u>
Totals	<del>`                                      </del>	8	82	22	8	<b>∞</b>		8		<u>                                    </u>	<del> </del>	\$	88	88	82	86	138	<u>                                     </u>	22	-		-
	İ						-			-												I

Table No. 16.

URATION OF RESIDENCE IN HOSPITAL OF THOSE RECOVERED

DURING THE BIENNIUM ENDING SEPTEMBER 30, 1916.

DUBATION OF PROIDWING		ear Endi ember 30			er Endin nber 30,	
DURATION OF RESIDENCE	Male	Female	Total	Male	Female	Total
0 20 days	1 6	1 1 4	2 2 10	2 15	1 2 5	8 17
\$ months.  6 months.  9 months.  12 months.	8 6 7	4 4 5 2	18 12 10 12 5	3 5 6 3	7 6 4	12 10 11 10
2 years	2 1 2	1	3 2 2	6 1	5 1 1	11
Totals				1 49	30	80

Fable No. 17.

ing the Fiscal Years Commencing With October 1, 1906, and Ending September 30, 1916, Showing the Number and Percentage of These Patients Who on September 30, 1916, Had Been Discharged as "Recovered"; Also Showing the Total Number of Discharges Among the Entire Patient Population As of Each Fiscal Year Since October 1, 1906, With Percentage of Recoveries Based on Number of Discharges; Also Daily Average Patient Population Table Showing the Number of Patients Admitted to the Western State Hospitai, Fort Steilacoom, Washington, Dur-Present in Hospital.

Dally Average Patient Population	997.44 1,122.44 1,282.94 1,882.94 1,870.47 1,871.68 1,877.08 1,899.50
Percentage of Recoveries to Discharges	280 2013 2013 2013 2013 2015 2015 2015 2015 2015 2015 2015 2015
Number of Patients Among the Entire Patient Popula- tion Discharged As "Recovered" As of the End of Each Fiscal Year Since October 1, 1906	187 198 197 197 198 198 198 198 198 198 198 198 198 198
Number of Patients Among the Entire Patient Popula- tion Discharged As of the End of Each Fiscal Year Since October 1, 1906	258 277 277 288 288 288 288 277 215 215 215
Number of Percentage of Patients Fatheris the Admission Discharged As Admissions Trom Each Year's "Recovered" Up Admissions Up on and Including to and Including September 30, 1916	88.88 88.88 88.88 88.88 88.88 88.73 88.88 8.66 8.88 8.66 8.66 8.66 8.66 8.
Number of Patients from Fach Year's Admissions Admissions Discharged As "Recovered" Up to and Including September 30, 1916	148 1988 1074 1074 1084 1084 1084 1084 1084 1084 1084 108
Number of Admissions for Each Fiscal Year Since Oct. 1, 1906	420 5588 5584 5584 576 576 621 278 578 578 578 578 578
FOR YEAR ENDING	September 30, 1907  September 30, 1906  September 30, 1906  September 30, 1910  September 30, 1911  September 30, 1911  September 30, 1911  September 30, 1918  September 30, 1916  September 30, 1916

Table No. 18.
CAUSES OF DEATHS OF PATIENTS.

		ear Endi			ar Endin mber 80,	
CAUSE OF DEATH	Male	Female	Total	Male	Female	Total
ERAL DISEASES:						
Carcinoma of breast					1	1
Carcinoma of lip				2		2
Carefroma of rectum	1 .		1		i	····i
Carcinoma of stomach			l	i	l	l î
Erysipelas, facial				1		1
Carcinoma of breast. Carcinoma of lip. Carcinoma of lip. Carcinoma of pylorus. Carcinoma of rectum Carcinoma of stomach Erysipelas, facial Influenza Parnicious naemia Senticaemia following traumatic				8	2	3
Septicaemia following traumatic					1	' '
abrasion of arm	1		1	l	. <b>.</b>	l
abrasion of arm					1	1
Tuberculasis, pullionary	7	4	111	10	1	11
Tuberculosis, pulmonary (hemorrhage)	1		1	1	]	١,
Tubercular laryngitis	l i		i	l <b>.</b>		l
Tubercular peritonitis	ī		ī		١	
EASES OF THE NERVOUS SYS- M AND OF THE ORGANS OF ECIAL SENSE:						
Exhaustion psychoses, collapse	ł		1			
delirium	1	<b> </b>	1	<b>.</b>		<b> .</b>
Intoxication psychoses, chronic	١ .		-			i
morphinism	1		1			
Intoxication psychoses, chronic cocainism	1		į .	1	1	1
Dementia praecox, catatonic	1			•	ļ	
form, with exhaustion	1	2	3	1		1
Dementia praecox, hebephrenic	١ .		١ ـ	ŀ	l	1
form, with exhaustion	8 26	8	8 29	22	2	24
Organic dementia, Huntington's	20	°	28	1 22		41
chores	1					١
chorea	25	4	29	8	8	16
Cerebrospinal syphilis	. 8	1	4	· · · · · · · · · · · · · · · · · · ·		
Melaneholia with exhaustion Senile dementia with exhaustion	28	8	26	10	1	111
Manie depressive insanity, manie	!	"	_ ~	10	•	**
state, with exhaustion	. 10			1	1	2
state, with exhaustion	. 1	8	4	8		€
pressed state, with exhaustion	2	1	2	1		
SEASES OF THE CIRCULATORY STEM:						
		İ		l	1	
compensation					3	
Atterio scierosis	2	1	8	·····;··	1	1 1
compensation Aterio scierosis Atheroma Acute dilation of the heart	1	1	1	1		1
				i		1
Fatty degeneration of the heart	.	1		1	1	i
Mitral insufficiency with broken compensation					_	
Www.pensation	Y 1	1	8	1	3	4
Myocarditis, acute	<del>.</del>			4		
Myocarditis, chronic		1	1	2		2
Pulmonery embolism	1 1	1	1	I	1	1
Duntaged annual		1		1	1	,
Myocarditis, chronic Pulmonary embolism Ruptured aneurism of the ascending aorta				1		1

# Table No. 18—Continued. CAUSES OF DEATHS OF PATIENTS.

GAVIOR OF DRAWN		ear Endi: ember 30			ar Endin mber 80,	Ending ber 80, 1916	
CAUSE OF DEATH	Male	Female	Total	Male	Female	Tota	
IV. DISEASES OF THE RESPIRATORY SYSTEM:							
Asthma Bronchitis, acute Pneumonia, broncho Pneumonia, hypostatic					2 2	2	
Pneumonia, hypostatic Pneumonia, lobar Pneumonia, lobular, probably septic	•	l I		8	1	i	
V. DISEASES OF THE DIGESTIVE			••••••	1			
Cirrhosis of the liver Enteritis, acute, with diarrhea Enteritis, chronic	i	1	1 1	1	2	1	
Gastro-enteritis, acute, from overloading stomach Peritonitis, general, following strangulated hernia			<b></b>	, 	1	١,	
Strangulation of intestine				1	1		
VI. DISEASES OF THE GENITO- URINARY SYSTEM: Nephritis, acute (following trauma) Nephritis, chronic Nephritis, chronic interstitial Nephritis, chronic parenchymatous.	1 2 1 3	6	1 2 1 9	1 8	4 1	1	
VII. AFFECTIONS PRODUCED BY EXTERNAL CAUSES: Accidental fall					1	,	
Drowning (accidental)	1 1 1		1 1 1				
Strangulation (suicide)	1		1	1			
Strangulation (accidental) VIII. UNKNOWN (Died on parole and	i		i			ļ	
escape)	3	1	4	8	1	-	
Totals	138	82	170	92	45	137	

Table No. 19.

### WING AGES OF PATIENTS WHO DIED DURING THE BI-ENNIUM ENDING SEPTEMBER 30, 1916.

ACPS ON DASSENDE		ear Endi ember 80		Year Ending September 30,			
AGES OF PATIENTS	Male	Female	Total	Male	Female	Total	
under 20 years	2 9 14 18 16 9 15 12 9 10 7 7	1 1 3 5 8 1 2 2 2 1 1 3 1 4	3 3 12 19 16 17 11 17 18 10 18 8 11 8 8	1 1 15 12 11 7 7 9 5 8 9 8 5 2 1 1	4 3 5 8 4 2 4 4 1 2	1 1 5 16 14 12 10 17 9 10 13 12 9	
Totals	189	82	170	92	45	187	
re age	50,7	51.7	50.9	51.4	56.2	52.6	

Table No. 20.

### ATION OF MENTAL DISEASE OF PATIENTS WHO DIED DUR-ING THE BIENNIUM ENDING SEPTEMBER 30, 1916.

DURATION OF DISEASE		ear Endi: ember 30		Year Endi September 30			
DURATION OF DISEASE	Male	Female	Total	Male	Female	Total	
1 monthmonths	<b>37</b> 10	8	45 18	6 6	6 2	12	
monthsmonths	17 10 18	3 8	20 13 13	8 8 6	5 4 8	18 7 9	
months. 8 months. ths to 2 years.	7 18 8	5 2	7 18 10	10 12 4	8 1 3	18 18 7	
Years Years	9 4 4	1 3 2	10 7 6	14 8 5	4 2 8	18 10 8	
5 years 9 years 5 years	1 2 1	1 1	2 3 1	2	4 3 1	8 8	
Years	138	32	160	92	45	137	
_		1		l	i l	i	

Table No. 21.
SHOWING MOVEMENT OF PAROLED PATIENTS.

MONTH OF PARTY NA		ear Endi ember 30		Year Endin September 80,			
MOVEMENT OF PATIENTS	Male	Female	Total	Male	Female	Total	
On parole October 1st	28 95	88 90	56 194	61 80	57 87	118 167	
Totals	118	132	250	141	144	285	
Discharged, while paroled: Recovered Improved Unimproved Died, while paroled. Transferred to other state hospitals, while paroled	8	24 28 1	30 42 5 4	80 26 2	36 25 1	66 51 3	
Totals		49		50	68	122	
Returned from parole	24 61	26 57	50 118	28 54	25 56	53 110	

Table No. 22. SUMMARY.

	Year Ending September 30, 1915			Year Ending September 30, 1916		
	Male	Female	Total	Male	Female	Total
Patients present, on parole and on escape October 1st	984 898	567 198	1,501 586	919 167	617 111	1,536 278
Total number of patients in hospital during term	1,827	760	2,087	1,086	728	1,814
Patients discharged—Recovered Patients discharged—Improved Patients discharged—Unimproved Patients discharged—Not insane	36 8	29 27	78 63 8	49 58 13	36 29	85 87 13
Patients transferred to Northern State Hospital, Sedro Woolley Patients transferred to Eastern State	168	58	221	2	1	3
Hospital, Medical Lake		2	1 10	9 10	<b>8</b> 1	12 11
state's expense	138	82	170	92	45	2 137
Number of vacancies created	408	148	551	236	115	351
Number of patients remaining at end of term	919	617	1,536	850	613	1,463

		<del></del>				_
Per Cent. Employed	85. 91. 19	ន់ <b>ខ្</b> រន់ <b>ន់</b> ខ្មន់ន	23.	<u> </u>	នាំខ្លួនខ្មែនខ្មែន	×
Average Population	90.5	888 812 573 888 888 888 888 888 888 888 888 888 8	98	811 816 817	800 800 802 887 887 1788 1788 177	102
Average Employed	90 178 178	255 255 255 255 255 255 255 255 255 255	217	278	250 250 278 278 288 288 288 288 288	888
Road					844	٩
Cobbler		ппппппппппппппппппппппппппппппппппппппп	-		пененене	-
Tinner			-		FEFFEFF	-
Office	00 00 00	80 80 80 10 10 10 10 44 80	4	844	4 10 10 10 10 10 10 10	140
Cottages	00 <b>00</b> 00	∞ ∞ ∞ ∞ ∞ ro ro ≁ →	8	444	44456666	2
Store and Commissary.	es 86 es	00 00 00 00 00 00 10 10 10	60	10 10 10	1010101010101411010	10
Painter	01 <b>01</b> 01	91 61 61 61 60 60 60 44	2	***	4484888848	-
Mason	91 91 91	046000000000000000000000000000000000000	80	3000	10 60 64 410 60 80 410	ي.
Woods		ននាជននានា	12	ននេះ	288484589	8
Lawns	888	228833E88	8	888	82545488	8
Laundry	222	123333331	15	222	5288888	18
Farm and Barns	222	2888888	88	<b>8</b> 01 201	<b>888888</b> 88	8
Carpenter	000	874448989	7	11 9	82-989999	×
Engineer	r- 00 00	***************************************	۵	= 22	0,0000000	٥
Kitchen	នដ≊	****	83	888	E	8
HLNOR	1914 October November December	January Pebruary March April May June July September	Average year ending Sept. 30, 1915	1915 October November December	January February March April April May June July September	Average year ending Sept. 30, 1916

#### Table No. 24.

REPORT OF MAJOR AND MINOR OPERATIONS PERFORMED AT THE WESTERN STATE HOSPITAL, FORT STEILACOOM, WASHINGTON, DURING THE BIENNIUM ENDING SEPTEMBER 30, 1916.

Amputations:	2
Fingers Legs	
Toes	
Aspiration of knee joint	
Abscesses Incised:	-
Axilla (tubercular)	2
Carbuncles	2
Faruncles	
Felon	
Hip joint	∷i
Psoas (tubercular)	∷i
Psoas (tubercular) Small single abscesses	20
Circumcision	
Curettage	
Dressing burn on arm	
Evulsion of toe nail	
	•
Excisions: Lipoma of chest	1
Massive fibroma of chest	
Fro examinations—by Dr. D. H. Rall of Tagona examination muscle	
Eye examinations—by Dr. D. H. Bell of Tacoma, examination muscle tension, signs, ext. disease, cornea, iris, pupil, lens and fundus (ophthe	:5, al-
moscopic) 104 male and 157 female	261
Lumbar punctures for spinal fluid	228
Laparotomies :	
Appendectomies (simple)	7
Appendectomies (simple) Appendectomies (complicated with abscess)	2
Gastro-Enterostomy for gastric ulcer	1
Intestinal obstruction	į
Omental hernia Post-operative adhesions Strangulated hernia (femoral)	:
Strangulated hernia (femoral)	:: :
Subdiaphragmatic abscess	1
Nephrectomy	
· ·	
Osteotomy (tarsal bone)	
Removing foreign body from cornea	1
Fractures Reduced:	
Colles' fracture Dislocation of middle finger	:
	•
Fractured forearm	1
Fractured forearm Fracture of leg Fracture of neck of humerus.	}
	}
Fractured forearm Fracture of leg. Fracture of neck of humerus. Poot's fracture. Suturing:	
Fractured forearm Fracture of leg Fracture of neck of humerus. Poot's fracture. Suturing: Incised wounds	
Fracture forearm Fracture of leg. Fracture of neck of humerus. Poot's fracture. Suturing: Incised wounds Cut throat and trachea	
Fractured forearm Fracture of leg. Fracture of neck of humerus. Poot's fracture. Suturing: Incised wounds Cut throat and trachea Consillectomies, complete enucleation.	2
Fractured forearm Fracture of leg. Fracture of neck of humerus. Poot's fracture. Suturing: Incised wounds Cut throat and trachea Consillectomies, complete enucleation.	2
Fractured forearm Fracture of leg. Fracture of neck of humerus. Poot's fracture. Suturing: Incised wounds Cut throat and trachea Consillectomies, complete enucleation. Wassermann's tests	2
Fractured forearm Fracture of leg. Fracture of neck of humerus. Poot's fracture. Suturing: Incised wounds Cut throat and trachea Consillectomies, complete enucleation. Wassermann's tests	2
Fractured forearm Fracture of leg. Fracture of neck of humerus. Poot's fracture. Suturing: Incised wounds Cut throat and trachea Consillectomies, complete enucleation. Wassermann's tests	2
Fractured forearm Fracture of leg. Fracture of neck of humerus. Poot's fracture.  Suturing: Incised wounds Cut throat and trachea  Consillectomies, complete enucleation.  Wassermann's tests Wassermann's tests Bunion (Mayo operation) Carbuncle (complete excision) Carbuncle (complete excision) Carbuncle (complete excision) Carbuncle (complete excision) Carbuncle (complete excision)	2
Fractured forearm Fracture of leg. Fracture of neck of humerus. Poot's fracture.  Suturing: Incised wounds Cut throat and trachea  Consillectomies, complete enucleation.  Wassermann's tests Wassermann's tests Bunion (Mayo operation) Carbuncle (complete excision) Carbuncle (complete excision) Carbuncle (complete excision) Carbuncle (complete excision) Carbuncle (complete excision)	2
Fractured forearm Fracture of leg. Fracture of neck of humerus. Poot's fracture.  Suturing: Incised wounds Cut throat and trachea  Consillectomies, complete enucleation.  Wassermann's tests  Miscellaneous operations: Bunion (Mayo operation) Carbuncle (complete excision) Cauterizing carcinoma of nose Chronic mastoidits Epithelioma of face and nose (excision) Epithelioma of lip (excision)	2
Fractured forearm Fracture of leg. Fracture of neck of humerus. Poot's fracture.  Suturing: Incised wounds Cut throat and trachea  Consillectomies, complete enucleation.  Wassermann's tests  Miscellaneous operations: Bunion (Mayo operation) Carbuncle (complete excision) Cauterizing carcinoma of nose Chronic mastoidits Epithelioma of face and nose (excision) Epithelioma of lip (excision)	2
Fractured forearm Fracture of leg. Fracture of neck of humerus. Poot's fracture.  Suturing: Incised wounds Cut throat and trachea  Consillectomies, complete enucleation.  Wassermann's tests  Miscellaneous operations: Bunion (Mayo operation) Carbuncle (complete excision) Cauterizing carcinoma of nose Chronic mastoidits Epithelioma of face and nose (excision) Epithelioma of lip (excision)	2
Fractured forearm Fracture of leg. Fracture of neck of humerus. Poot's fracture.  Suturing: Incised wounds Cut throat and trachea  Consillectomies, complete enucleation.  Wassermann's tests  Miscellaneous operations: Bunion (Mayo operation) Carbuncle (complete excision) Cauterizing carcinoma of nose Chronic mastoidits Epithelioma of face and nose (excision) Epithelioma of lip (excision)	2
Fracture of leg. Fracture of leg. Fracture of neck of humerus. Poot's fracture  Suturing: Incised wounds Cut throat and trachea Consillectomies, complete enucleation.  Wassermann's tests  Miscellaneous operations: Bunion (Mayo operation) Carbuncle (complete excision) Cauterizing carcinoma of nose Chronic mastoidtis Epithelioma of face and nose (excision) Epithelioma of lip (excision) Hemorrhoids Hydrocele (bottle operation) Ingrowing toe nails Ligation superior thyroid artery (exophthalmic goitre)	2
Fracture of leg. Fracture of leg. Fracture of neck of humerus. Poot's fracture  Suturing: Incised wounds Cut throat and trachea Consillectomies, complete enucleation.  Wassermann's tests  Miscellaneous operations: Bunion (Mayo operation) Carbuncle (complete excision) Cauterizing carcinoma of nose Chronic mastoidtis Epithelioma of face and nose (excision) Epithelioma of file (excision) Hemorrhoids Hydroccle (bottle operation) Ingrowing toe nails. Ligation superior thyroid artery (exophthalmic goitre) Thyrodectomy (partial) Exophthalmic goitre	700
Fracture of leg. Fracture of leg. Fracture of neck of humerus. Poot's fracture  Suturing: Incised wounds Cut throat and trachea Consillectomies, complete enucleation.  Wassermann's tests  Miscellaneous operations: Bunion (Mayo operation) Carbuncle (complete excision) Cauterizing carcinoma of nose Chronic mastoidtis Epithelioma of face and nose (excision) Epithelioma of lip (excision) Hemorrhoids Hydrocele (bottle operation) Ingrowing toe nails Ligation superior thyroid artery (exophthalmic goitre)	700

#### Table No. 25.

#### PATIENTS' FUND.

Covering Period, October 1, 1914, to September 30, 1916.

on hand October 1, 1914	\$6,195 19 8,295 82	
ments on hand September 30, 1916		\$8,308 21 6,182 80
tals	\$14,491 01	\$14,491 01

#### DECEASED AND ESCAPED PATIENTS' FUND.

Covering Period, October 1, 1914, to September 30, 1916.

on hand October 1, 1914.	\$2,296 96 1.118 95	
ments on hand September 30, 1916		\$191 28 8,224 63
tals	\$3,415 91	\$3,415 91

#### UNCLAIMED PATIENTS' FUND.

Covering Period, October 1, 1914, to September 30, 1916.

on hand October 1, 1914	\$541.58	
***************************************	121 15	
on hand September 30, 1916	• • • • • • • • • • • • • • • • • • • •	<b>\$662</b> 73
tals	\$662 73	\$662 73

#### AMUSEMENT FUND.

Covering Period, October 1, 1914, to September 30, 1916.

on hand October 1, 1914	\$5 82 1.149 08	
ments on hand September 80, 1916		\$1,105 09 49 26
otals	\$1,154 85	\$1,154 85

Table No. 26.

#### MISCELLANEOUS FUND.

During Biennium Ending September 30, 1916.

Date	Received Account or Remitted Account	Received	Disbursed
1914 Oct. 21 Nov. 2 Nov. 6	Geo. Harrison, 1 pig W. C. Gye, 5 bull calves Bissinger & Co., hides Balance to State Treasurer	85 00 217 09	\$304 59
Dec. 10 1915	48 old barrels	15 15	
Jan. 6	F. Cohen, 9 barrels	18 00	
Jan. 28	To State Treasurer		15 13 13 00
Feb. 1 Feb. 18 Mar. 4 May 18	Mrs. Webb, 1 old barrel	25 4 00 30 40	50
May 20 May — June 4	1 boar pig. Refund, account industrial insurance rebate, voucher G-79 1914	5 07	49 47
June 2 July 9	2 gallons gasoline	25	23
July 18	Jos. Sladek, 51 beef hides	\$370 01 61 78 1 65 3 67	
July 16 July 19 Aug. 2	T. Cohen, 3,000 empty sacks. T. Cohen, 6,489 empty sacks. To State Treasurer. To State Treasurer.		437 11 349 74
Aug. 8 Aug. 12 Sept. 7	Jos. Sladek, 10 beef hides, 508 pounds, at 16½c	99 16 15 00	114 16
Sept. 25 Sept. 30	Jos. Sladek, 8 cow hides	49 22 66	
Oct. 6 Oct. 7 Oct. 19	Balance to State Treasurer.  V. Lamken, 1,160 sacks at Sc	84 90	49 86
Nov. 5	Jos. Sladek, 1 calf hide	42 77	77 57
Nov. 30	Cash received from various relatives and friends of patients for dental work performed—On hand November 30, 1915.  Cash received from employes for shoes repaired—On	288 07	
Dec. 10	hand November 30, 1915	7 85	240 93

# Table No. 26—Continued. MISCELLANEOUS FUND.

During Biennium Ending September 30, 1916.

Received Account or Remitted Account	Received	Disbursed
Jos. Sladek, 8 beef and calf hides	56 40	
Robert A. Allen, for use of surgery (outside emergency operative case)	10 00	
Balance to State Treasurer	<b>.</b>	68 40
Harry Richlen, junk machinery as follows:       \$60 00         Laundry machinery       \$60 00         Pumps       16 00         lee machine       15 00         Old engine       40 00         Serap iron       17 85	148 85	
Balance to State Treasurer		148 85
Jos. Sladek, 9 beef and calf hides	60 66	
January, 1916, voucher No. A-298	4 00	64 66
Dental cash receipts (April)	4 60	16 59
Bissinger & Co., 597 pounds beef and calf hides	88 48	
Dental cash receipts (May).  Balance to State Treasurer.	17 04	210 42
Dental cash receipts (June)	1 00	60 80
Dental cash receipts (July)	7 81	
patient June 18Balance to State Treasurer	5 00	12 81
Jos. Sladek, 10 beef and calf hides, 3051 pounds at 14c to 28c	58 00	
Mr. Argenbright, cash received to cover mileage used in transferring patient Dalsy Argenbright	6 20	
Williams Dental cash receipts (month of August)	5 00 3 94	
Balance to State Treasurer		73 14
Hiram Good John Lesko, cash received to cover cost of materials	5 00	
used in making private chest	2 75	7 73
Totals	\$2,314 75	\$2,314 75

#### EASTERN STATE HOSPITAL.

To the State Board of Control:

GENTLEMEN: I herewith submit for your consideration, as required by law, the Eighth Biennial Report of the Eastern State Hospital covering the two years beginning October 1, 1914, and ending September 30, 1916.

Changes in Population.—A census of this hospital at the beginning of period covered by this report showed a total population of 1,056, of whom 719 were males and 337 females. There were 176 male and 78 female patients received in the first year. Vacancies were created by 90 discharges, 74 deaths, leaving an actual gain of 90 for the first year.

At the beginning of second year the number of patients was 1,146 and during this year 141 males and 65 females were admitted to the hospital. Vacancies were created by 140 discharges and 70 deaths. This made the total population for the institution at close of biennium 1,142.

By referring to table No. 13 it will be observed that the gains of the population were 110 and 90 in 1914 and 1915, respectively, while in 1916 there was not only no gain, but an actual loss in total population of 4. There are several factors which together account for this result, viz., on July 1st, 1915, the law restricting the state in the matter of commitment of insane went into effect, thereby causing all insane from Yakima and Kittitas counties to be sent to Ft. Stellacoom; also since January, 1916, we have received only four cases of the alcoholic insanities, and we also receive fewer cases from use of narcotic drugs, and finally since July, 1915, the parole law has allowed the release of cases without so much difficulty, which more readily leads to their final discharge.

The recovery rate for the biennium was 31.42 per cent. The death rate was 5.40 per cent.

General and Medical Care.—Every effort has been made to keep the hygiene and sanitation at this hospital up to the highest standard. We have had no outbreaks of contagious diseases, and with the exception of a few cases of erysipelas have not been troubled materially with severe infections. Of course, the aged and feeble are always subject to pneumonia and like diseases during the cold months.

Many major and minor surgical operations were performed for relief of different ailments among the patients. Hydrotherapeutics is used in amenable cases. Current Literature in the medical journals is carefully watched for any new advance in medicinal treatment that may be of benefit to the insane.

#### e following is a resume of the laboratory work done:

Urinalyses 32	25
Blood examinations 4	15
Sputum examinations 4	16
Pus examinations	24
Throat smears 8	32
Venereal smears	9
Autogmous vaccines	9
Water analyses 2	20
Gastric analyses	6
Blood cultures	8
Animal inoculations	2
Spinal fluid examinations	25
Wassermann tests 22	24
Autopsies	29

e general welfare and contentment of the patients have been proas much as possible by furnishing much diversified employment, many forms of amusement. A large number of patients were as usual, to the interstate fair at Spokane.

provements.—Improvements accomplished during the biennium

larging water system by installing new pump of 35,000 gallons capacity. Building new pump house and laying larger and intake pipe at Clear Lake.

talling new 300 horse power boiler with automatic stokers.

larging our system of concrete sidewalks.

ection of main part of modern greenhouse.

inting all out buildings and roofs of main buildings.

paring grounds for creating amusement park for female patients.

w metal washers installed in laundry.

reasing efficiency of bakery.

ection of modern smokehouse for curing hams and bacon.

ection of improved cow and calf barn.

tension of telephone and lighting system.

merous minor improvements about grounds and buildings.

appropriation was made by the last Legislature, our farm one have increased very materially. We are now cultivating 619 compared with 444 the last biennium. In fact this department ome so large that it was found necessary to divide it into two is, placing the garden and orchard operations under one head egeneral farm under another. By so doing, there is no doubt twe have increased the efficiency of the farm as a whole. With acceptions, we will produce all the hay, grains, vegetables and used by the institution during the year. To this is to be added ducts of the piggery and dairy, which are running at the high-liency, producing all the pork, ham, lard, bacon and milk used institution.

The question has been raised and set forth by several reports is sued by the Bureau of Inspection and Supervision of Public Offices, as to the probability of making an institution of this kind not only self-supporting but also return a revenue to the state treasury. Without going into lengthy detail, will state that in my opinion, it cannot be done by means with which I am conversant. If there has ever been any such thing as a self-supporting institution for the insane, I have never heard of it. If this is to be accomplished by the work of the patients, which is the presumption, then it is impossible on the face of it, for the percentage of really efficient farm labor in an institution of this kind will scarcely equal 10 per cent of the population.

#### IMPROVEMENTS NEEDED.

I have asked for the following improvements for the next biennium and herewith give explanation of same:

Lawn and Grounds.—This item is made up of innumerable small improvements continually needing attention in a large institution of this kind, also the laying out and equipment of an amusement park and recreation grounds for the women patients, which include buildings, fencing, shrubbery, walks, etc., also the extension of concrete sidewalks and curbing for the hospital roads and grounds. Estimated cost \$1,500.

Buildings.—New wing and equipment for greenhouse to carry out original design. Estimate of material furnished by supply company, together with freight from Chicago on same, also foundations, labor, etc., bring estimated cost of this item to \$1,000.00.

In order to increase capacity of piggery it will be necessary to build five hog houses and another farrowing house. This, together with the labor and material that is required for construction, is estimated to cost \$2,300.00.

Fireproof Vault.—This is considered necessary for the safe keeping of the hospital records and to prevent them from destruction in case of fire. Estimated cost of construction of concrete vault is \$800.00.

Storeroom Improvements.—In order to increase capacity of storeroom and render same sanitary and rat-proof, it will be necessary to lay cement floor and do considerable partitioning and plastering. Estimated cost of same is \$1,056.00.

Grand Stand at Ball Grounds.—Necessary to furnish seats and shelter at recreation grounds. The old stands are rotten, decayed and unsanitary. Estimated cost of stands capacious enough to take care of present needs, \$1,800.00.

Septic Tank.—Capacity for 1500 people. Sanitary measure, also enabling use of water from same for irrigation purposes, which now goes to waste. Estimates of cost based upon cost of tank at Institution for Feeble Minded, which has capacity for 600 people and cost \$2,000.00. Expect to furnish all labor, doing away with the expense of contract labor. By doing this we believe same can be installed for \$3,500.00.

Two Silos.—Situated at dairy barn and necessary to increase cay for ensilage. Old silos too small. Either tile or cement of 120 capacity each. Estimated cost of both \$1,500.00.

Office Furniture and Equipment.—Includes sectional record cabinets, carpets, office chairs, typewriter, etc. Estimated cost \$400.00.

Household Furniture and Equipment.—Includes the following: resses, bedding, carpets, bed springs, beds for wards, 500 blankets wards, kitchen utensils and equipment, dishes, crockery and tin. Estimated cost of same is \$3,500.00.

Utility Equipment.—Includes the following: One motor truck id facilitate delivery of coal, movement of farm produce and haulreight. Cost based on price quoted, \$3,000.00.

Farm machinery and implements to provide for increasing farm ations include manure spreader, 3 wagons, 1 orchard cultivator, 1 planter, 1 mowing machine and two bob-sleds. Estimated cost me is \$1,060.00.

Machinery, Appliances and Plant.—One lathe, considered necessary or engineer to increase efficiency of machine shop, cost estimated quotation obtained by engineer, \$1,000.00.

Two motors, 5 h. p. each, to be used at state farm. Estimated cost agineer, \$200.00. To be used for pumping water and grinding feed. Three transformers, 7½ K. W. each, to be used at state farm. Cost me, \$225.00.

Power and light lines to state farm,  $1\frac{1}{2}$  miles, necessary for safety, r and increasing efficiency of farming operations. Present farm out electric lights or electric energy. Use oil for lights. Estimated of installing line, poles, and 3 wires  $1\frac{1}{2}$  miles, \$600.00.

Wiring and fixtures for Peat building; these buildings are occupied rmer and need electric lights and fixtures. Estimated cost of inning same by engineer, \$150.00.

Enlarging water main from reservoir to boiler room includes 550 of 8-inch Calamine pipe, 1 C. I. T. 10x8x6-inch, 300 lbs. pig lead and s. of jute. Estimated cost of same, \$635.00.

Enlarging water main from pump station to connecting main for tution for Feeble Minded. Necessary to take care of increased needs rater for both institutions. Present pipe too small and not strong gh to stand pressure of new pump. Considerable loss of capacity eason of excess friction. Five thousand one hundred feet of 10 cast iron pipe, thickness % inch required, together with all actries to install, and labor, estimated to cost \$7,336.00.

Abrary and School.—Includes books, piano, etc., for which \$700 is it.

Ave Stock.—We have been particularly unfortunate during the last dum in losing several teams of horses from an infectious disease lar to them, known as Equine Infectious Anemia. This disease ved us of horses that otherwise could have been expected to ren-

Table No. 3. SHOWING COUNTIES PATIENTS ADMITTED FROM.

COUNTIES		ear Endi ember 30			ar Endir mber 30,	
COUNTIES	Male	Female	Total	Male	Female	Total
Adams Asotin Benton Chelan Columbia Douglas Ferry Franklin	8 2 1 8 4 2 2 2	1 2 1 2 2 2	4 4 2 5 6 2 5 5	2 8 7 1 8 1 12	1 2 2 2 1 1 3 1	1 2 5 9 2 4 4 13
Garneid Grant King Kittitas Kitcitas Kilekitat Lincoln Okanogan Pend Oreille Penitentiary Pierce Reformatory Skagit Skamania Spokane Stevens Snohomish Walla Walla Whitman Yakima	1 3 9 3 9 4 2 10 2 2 2 7 7 1 15 8 5	1 2 1 2 8 	5 5 10 3 11 7 2 10 2 2 2 100 14 11 17 10	3 7 4 3 7 3 1 1 57 7	2 1 2 1 1 37 1 1 4	55 88 66 4 7 3 1 1 94 8 8 1 14 9
Totals	176	78	254	141	65	206

Table No. 4.

SHOWING CIVIL CONDITION OF PATIENTS ADMITTED.

CIVIL CONDITION		ear Endi			ar Endir mber 30,	
CIVIL CONDITION	Male	Female	Total	Male	Female	Total
Married Single Widowed Divorced Unknown	56 86 6 8	46 19 6 1 6	102 105 12 4 81	44 68 6 8 20	85 11 9 2 8	79 79 15 5 28
Totals	176	78	254	141	65	206

Table No. 5.
8HOWING OCCUPATION OF PATIENTS ADMITTED.

,	Sept.	ear Endi ember 80	ng , 1915	Year Ending September 30, 191			
OCCUPATION	Male	Female	Total	Male	Female	Total	
	2		2		1	1	
• • • • • • • • • • • • • • • • • • • •	1 1		1	1		1	
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	1 2		2	3			
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nd stenographer	1		1	8	1	4	
	1 6		1 6	6		6	
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	1	1	2	8		8	
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	6		6	i		ĺ	
	1		1				
	81	1	82	80	<u>:-</u>	30	
	·····i	50	59 1		47	47	
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	1		1				
	1		1				
• • • • • • • • • • • • • • • • • • • •	52		52	38		38	
• • • • • • • • • • • • • • • • • • • •	1	1 i	2	2 1		2	
		l*		8		9	
	1		1	2	[	2 1 8 2 2 4	
	4	[·····]	4	2		2	
	10		10	4	8	4	
	4	i	8 1	4	8	l ⁷	
		l		1 i		1	
	1		1	1		1	
	1		1	1		1	
	1		i	2		2	
	2	:::::	2				
or			<del>.</del>	1		1	
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	1 2		1 9	2		1	
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	i	i i	2 2 1 6 1 1 2	1		ī	
	4	2	6	1.	3	4	
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	1 1		1				
	2	[:::::]	2	1		1	
	1	[	1				
	5		5	. 8	<u>-</u>	3	
	20	2	22	19 1	2	21 1	
	•••••		• • • • • • • • • • • • • • • • • • • •				

Table No. 6. SHOWING ASSIGNED CAUSES OF DISEASES.

Q4 <b>222</b>						ar Ending mber 30, 1916			
CAUSE	Male	Female	Total	Male	Female	Tot			
Aleohol  Ohild birth  Domestic trouble  Dissipation  Expliepsy  Exposure  Heredity  Imbeellity  Injury to head  Injury to head.  Influence of hypnotist  Isolation  Jealousy  La grippe  Masturbation  Menopause  Morphine  Nephritis  Neurasthenia  Overwork  Puerperal  Pregnancy  Religion  Senility  Syphilis  Sexual desire  Sterlity  Typhod  Unknown  Worry over businese  Worry over loss of relative.	92 6	1 1 2 3 8 3 1 1 28 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	18 6 1 11 15 1 23 5 1 1 1 2 2 2 2 2 3 10 6 17 1 1 12 2 2 2 2 3 1 1 1 1 1 1 1 1 1 1 1	9 1 4 3 111 8 5 2 2 1 9 1 6 14 1 1 6 14	2 8 1 1 1 6 1 2 4 4 2 1 1 35 1 1				
Totals	176	78	254	141	66	-			

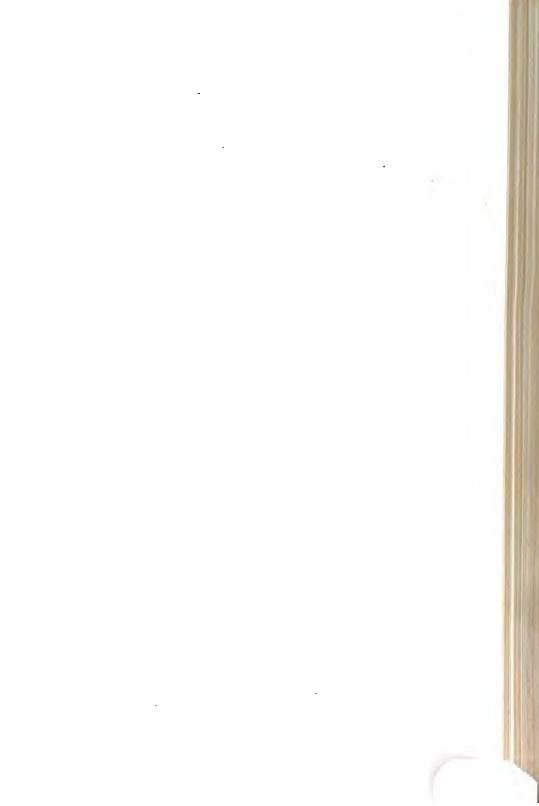


Table No. 6. SHOWING ASSIGNED CAUSES OF DISEASES.

		ear Endi ember 80		Ye. Septe		
CAUSE	Male	Female	Total	Male	Female	Total
Alcohol Child birth Domestic trouble Dissipation Epplepsy Exposure Heredity Imbecility Indury to head Influence of hypnotist Isolation Jealousy La grippe Masturbation Menopause Morphine Nephritis Neurasthenia Overwork Puarperal Pregnancy Beligion Sendity Syphilis Sexual desire Sterility Typhoid Unknown Worry over love affair Worry over loss of relative. Worry over loss of relative. Worry over European war	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 2 3 8 8 1 1 28 8 2 2	18 6 1 15 15 12 28 11 11 11 22 2 2 3 10 6 17 1 11 12 2 2 2 3 10 6 11 11 11 11 11 11 11 11 11 11 11 11 1	1 4 3 111 8 5 2 2 1 9 9	2 8 1 1 1	11
Totals	176	78	254	141	66	206



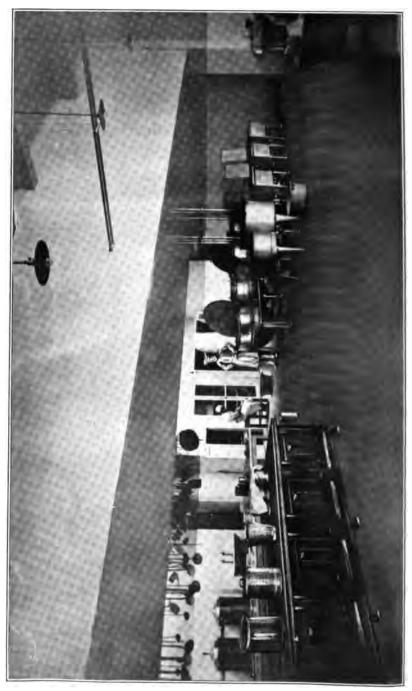




Table No. 7.

AGES OF PATIENTS ADMITTED.

4070		ear Endir ember 80,		Year Ending September 30, 1916		
AGES	Male	Female	Total	Male	Female	Total
tween 10 and 15 years.  tween 15 and 20 years.  tween 20 and 25 years.  tween 25 and 30 years.  tween 35 and 40 years.  tween 40 and 45 years.  tween 46 and 50 years.  tween 50 and 65 years.  tween 55 and 60 years.  tween 60 and 65 years.	18 14 22 10 18 26 13 11	1 18 18 10 12 2 5 8 5	2 5 31 27 82 22 20 31 21 16	3 10 16 19 17 14 14 6 7	5 8 7 8 4 9 13 8 1	8 18 23 27 21 23 27 9 8
ween 65 and 70 years ween 70 and 75 years ween 75 and 80 years ween 80 and 85 years ween 85 and 95 years	2 6 8 1	1 2	6 7 5 1 1	6 4 3 2 1 13	1	9 8 8 6 5 3 2 1
Totals	176	78	254	141	65	206

Table No. 8.

## WING DURATION OF DISEASE PRIOR TO LAST ADMISSION.

·	1						
DURATION		ear Endir ember 30,		Year Ending September 30, 1916			
DURATION	Male	Female	Total	Male	Female	Total	
One monththree months	19	20 15	70 34	40 23	20 12	60 35	
twelve months	11	8 7 5	23 18	11 9	6	17 15	
two years	18	10	13 23	9	6	16 15	
ten years	6	3	12 7	2 2	1	3	
y to twenty-five years		2 1 6	3 1 50	3		3	
- · ·	- 44			371		35	
Totals	176	78	254	141	65	206	

Table No. 9.

SHOWING NUMBER OF ATTACKS OF PATIENTS ADMITTED.

NUMBER OF ATTAOKS -		ear Endi ember 80		Year Ending September 30, 1916		
		Female	Total	Male	Female	Total
First attack	89	41	180	64	38	102
Second attack	14	12	26	20	7	27
Third attack	6	10	16	4	4	8
Fourth attack	1		1	2	4	1 6
Fifth attack	1	1	1	1	1	2
Sixth attack	' <b></b> .	1		1	1	2
Eleventh attack	l <i></i>				.  1	1
Unknown	42	9	51	37	3	40
Several attacks	23	6	29	12	6	18
Totals	176	78	254	141	65	206

Table No. 10.
SHOWING FORMS OF INSANITY OF PATIENTS ADMITTED.

		ear Endi ember 30,					
FORM OF DISEASE		Female	Total	Male	Female	Tota	
Infective exhaustive phychoses Intoxication psychoses:	2	7	9	3	5		
Acute alcoholic hallucinosis	18 2	4	22 2	12	2	14	
Morphinism Belladonna poisoning		1	1	1 1	i	1	
Dementia praecox: Hebephrenic	17	7	24	20	9	25	
Catatonic	3 85	5 8	8 48	20 1 26	7 5	3	
Allied to dementia praecox	1	ı	2	1	2	"	
Dementia paralytica		2	19 5	11	1	1	
Arterio scierotic insanity		2	1 5		2		
nvolution phychoses: Melancholia		-			1		
Pre-senile delusional insanity		4	13 2	4	3		
Senile dementia	19	4	23	25		9	
Maniacal form	13 12	18	26 18	16	12	2	
Mixed form		8	8	ļ <b>.</b>			
Paranoia				1	1		
Epileptic insanity		5	15	1 1			
Constitutional inferioritymbeeility		8	10	1 2	1 2	1	
Sorderland cases	1	1	1 1	1 i	3		
Not insane		1	1	<u> </u>	l		
Totals	176	78	254	141	65	l 20	

_				Eighth Biennial Report	13
	il	VED	Total		81
	1	UNIMPROVED	Fe- male Total		10
	1918	UNIS	Male	1 80 10 80 11 61 11 11	12
أ	F.	8	Fe-   male Total		88
1	Penten	IMPROVED		- 61	9
1	ding.	E	Mak	L 0100- L 4 44 80 L	83
1	Ver Ending September 30, 1916	6	Fe- male Total	1 5 1 2 2 2 2 1 4 2 1 2 1 2 1 2 1 2 1 2 1 2	8
Ί	٤	RECOVERED	Fe- male	H 64-1- 164 80 80 17 18 18 18 18 18 18 18 18 18 18 18 18 18	8
, 1 '		REC	Male	7 -4 0 804	ತ
١,-		E	[ota]		=
1		IPRO\	Fe- male Tota		7
1	5	UNIMPROVED	Mak		-
11		-	Fe- male Total		82
1	Conta	ED IMPROVED UNI		H01H H4	6
: '	200		Male	H 100 00	0
	Your U	6	Fe. Total	1 121 1 4 10 1 10	150
i:		RECOVERED		01 01 01 0101	13
		REC	Make	F 51 8 801 1	3
		FORM OF DISEASE		Infective exhaustive phychoses. Actet alcoholic hallucinosis. Chronic alcoholic hallucinosis. Morphinsm Morphinsm Morphinsm Catatonic Paracox: Hebephenic Catatonic Paranoid Allied to Organic Dementia: Tabes dorsalis Dementia paralytica Post-bemipogic inanity Post-bemipogic inanity Post-bemipogic inanity Presente dorsalis Involution Eychoses: Presente delusional inanity Ranical form Depressed form Manical form Depressed form Constitutional inferiority Hysterical insanity Constitutional inferiority Involutional inferiority Involutional inferiority Involutional inferiority Manical Insanity Constitutional inferiority Not Insane Unicassified	Totals

Table No. 12. SHOWING CAUSES OF DEATH.

Cerebral hemorrhage 4 Dementia, exhaustion from. 1 Dementia, senile 5 Epilepsy, exhaustion from. 1 Erysipelas, facial 5 Endocarditis, malignant 1	-	Female 4	Total  11 2 1 1 1	Male 6	Female	Total
Aortic regurgitation 2 Acute delirious mania 1 Aorta, ruptured aneurism 1 Carcinoma of stomach 1 Carcinoma of tongue and jaw 1 Carcinoma of sigmoid 1 Carcinoma of fileum 1 Carcinoma of fileum 1 Cellulitis of neck 1 Cerebral hemorrhage 2 Dementia, exhaustion from 1 Ementia, senile 2 Epilepsy, exhaustion from 1 Erysipelas, facial 1 Erysipelas, facial 1 Endocarditis, malignant 1		4	2	6	1	~
Acute delirious mania			1			•
Aorta, ruptured aneurism. 1 Carcinoma of stomach. 1 Carcinoma of tongue and jaw. 1 Carcinoma of sigmoid. 1 Carcinoma of lieum. 1 Cellulitis of neck. 1 Cerebral hemorrhage 1 Dementia, exhaustion from. 1 Emeritia, senile 1 Epilepsy, exhaustion from. 1 Erysipelas, facial 1 Endocarditis, malignant 1			-			• • • • •
Carcinoma of stomach.         1           Carcinoma of tongue and jaw.         1           Carcinoma of sigmoid.         1           Carcinoma of sieum.         1           Cellulitis of neck.         1           Cerebral hemorrhage         4           Dementia, exhaustion from.         1           Dementia, senile         1           Epilepsy, exhaustion from.         1           Erysipelas, facial         1           Endocarditis, malignant         1			1	ı		
Carcinoma of tongue and jaw         1           Carcinoma of sigmoid         1           Carcinoma of sigmoid         1           Cerelonal of sieum         1           Cerebral hemorrhage         4           Dementia, exhaustion from         1           Dementia, senile         1           Epilepsy, exhaustion from         1           Erysipelas, facial         1           Endocarditis, malignant         1			-			• • • • • •
Carcinoma of sigmoid         1           Carcinoma of fleum         1           Cellulitis of neck         1           Cerebral hemorrhage         4           Dementia, exhaustion from         1           Dementia, senile         1           Epilepsy, exhaustion from         1           Erysipelas, facial         1           Endocarditis, malignant         1			1	8	• • • • • • • •	3
Carelnoma of fleum.         1           Cellulitis of neck.			1 1			· · • · •
Cellulitis of neck         6           Cerebral hemorrhage         4           Dementia, exhaustion from         1           Dementia, senile         1           Epilepsy, exhaustion from         1           Erysipelas, facial         1           Endocarditis, malignant         1			1			
Cerebral hemorrhage         4           Dementia, exhaustion from.         1           Dementia, senile            Epilepsy, exhaustion from.         1           Eryspelas, facial            Endocarditis, malignant	- 1		1	·····i	,	
Dementia, exhaustion from			3	2	5	
Dementia, senile Epilepsy, exhaustion from. 1 Erysipelas, facial Endocarditis, malignant		1	1		Z	9
Epilepsy, exhaustion from			-	1		·····i
Erysipelas, facial			1	5		5
Endocarditis, malignant		1	î	, ,		
			•		1	1
Huntington's chores		1	1		1	•
Infective exhaustive psychosis		3	4		1	1
Mania, exhaustion from	1	ĭ	i	3	2	5
Mitral regurgitation		î	2	5	2	7
Nephritis, chronic		ī	5	3	i	1
Nephritis, acute	`I	i i	ĭ	2		9
Oedema of glottis from infection of mouth 1	`		ī			
Paralytica, dementia 12		1	13	11		11
Pneumonia, lobar		4	8	5	3	8
Peritonitis and ileus				1		1
Post-hemiplegic insanity		2	2		1	
Pneumonia, terminal 1			1			
Status epilepticus 2			2		1	1
Suicide by hanging		1	1			
Suicide by fall from window			• • • • • • • • • • • • • • • • • • •	1		1
Tabes dorsalis 1			1			
Tuberculosis, pulmonary	•••	4	4	4	2	6
Totals		26	74	54	16	70

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Table No. 13.
SHOWING AGES OF PATIENTS WHO DIED IN HOSPITAL.

		ear Endir ember 30		Year Ending September 30, 1916				
AGE AT DEATH	Male	Female	Total	Male	Female	Total		
veen 10 and 15 years. veen 15 and 20 years. veen 25 and 25 years. veen 25 and 30 years. veen 35 and 30 years. veen 36 and 40 years. veen 45 and 50 years. veen 45 and 50 years. veen 50 and 65 years. veen 50 and 65 years. veen 60 and 65 years. veen 65 and 70 years. veen 70 and 75 years. veen 75 and 80 years. veen 75 and 80 years. veen 85 and 90 years. veen 85 and 95 years.	2 2 4 3 2 5 8 6 2 6	2 2 3 3 1 4 2 4	12 2 4 7 7 3 5 6 12 110 4 6 5 2 2 3 3	2 7 5 8 3 5 5 2 3 4 3 1	3 1 4 2 2 1	5 5 8 5 5 7 8 5 5 7 6 6 2 5 4 4 3 3 1		
Totals	48	26	74	54	16	70		

Table No. 14.
SHOWING NUMBER OF ADMISSIONS, RECOVERIES AND DEATHS.

YEAR ENDING	.Admissions	Whole number treated	Discharged recovered	Discharged not recovered	Dled	Escaped	Remaining	Increase	Dесгеаве	Per cent. of recoveries to admissions	Per cent. of deaths to whole number treated
Received from Western Hospital.  September 30, 1891.  September 30, 1892.  September 30, 1893.  September 30, 1894.  September 30, 1894.  September 30, 1896.  September 30, 1896.  September 30, 1898.  September 30, 1899.  September 30, 1899.  September 30, 1900.  September 30, 1901.  September 30, 1902.  September 30, 1903.  September 30, 1904.  September 30, 1904.  September 30, 1906.  September 30, 1908.  September 30, 1908.  September 30, 1908.  September 30, 1908.  September 30, 1909.  September 30, 1909.  September 30, 1909.  September 30, 1919.  September 30, 1911.  September 30, 1911.  September 30, 1912.  September 30, 1914.  September 30, 1916.	122 20 74 4 56 66 57 76 68 4 106 114 143 150 171 171 166 198 229 261 2255 273 279 254 206	207	66 366 228 231 338 266 322 538 220 444 599 622 448 677 612 62 62 62 62 62 62 62 62 62 62 62 62 62	26 6 24 84 56	88 16 17 26 88 16 17 26 88 21 25 45 45 42 47 48 71 65 78 88 70 70	1 9 4 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	133 164 182 207 219 251 286 278 313 325 367 380 440 481 518 587 920 920 920 91,056 1,142 1,142	11 811 126 322 355 12 422 128 120 500 41 17 94 75 80 80 80 80 80 80 80 80 80 80 80 80 80		30.00 48.64 43.40 46.97 66.66 34.21 38.100 50.00 35.040 50.80 19.17 22.00 19.17 22.65 19.17 22.65 19.17 22.65 19.17 23.39 30.58 31.50 16.84 24.01 38.83	3.38 5.52 4.08 5.08 5.44 5.07 6.63 8.31 4.83 4.83 5.09 5.56 6.49 6.63 7.15 6.63 7.15 6.63 7.15 6.63

Table No. 15. SUMMARY OF POPULATION.

		ear Endi: ember 80		Year Ending September 30, 1916				
	Male	Female	Total	Male	Female	Total		
nts in hospital at beginning of term.	719	719 837 1,056 786		786	360	1,146		
ots admitted on commitment during m nts received from State Penitentlary. hts received from State Reformatory	164 10 2	78	242 10 2	131 7 3	65	196 7 3		
Total admissions	176	78	254	141	65	206		
number of patients in hospital ing term	895	415	1,310	927	425	1,352		
ts discharged as "recovered" ts discharged as "improved" ts discharged as "unimproved"	48 9 4	13 9 7	61 18 11	54 82 17	25 6 5	79 89 22		
ts discharged as "not insane"	48	26	74	54	1 16	70		
Number of vacancies created	109	55	164	164 157	53	210		
Number of patients remaining at end of term	786	360	1,146	770	872	1,142		

#### NORTHERN STATE HOSPITAL.

To the Honorable State Board of Contorl.

GENTLEMEN: In accordance with the law I respectfully submit herewith the report of the Northern State Hospital for the two years beginning October 1st, 1914, and ending September 30th, 1916.

The institution was formerly a branch of the Western Hospital for the Insane, but by an act of the legislature of 1915, was established as the Northern State Hospital. Provisions being made to receive and care for all cases committed to the institution from the nine northern counties, as follows:

Kitsap, King, Snohomish, Skaglt, Whatcom, Jefferson, Clallam, Island and San Juan.

There were present in the institution October 1st, 1914, 287 patients. Admitted during the first period by transfer from the Western State Hospital, 221, and committed direct, 125. The whole number treated being 633. There were 58 vacancies created, as follows:

Discharged, 32; died, 26; remaining in hospital, September 30th. 1915, 575. Increase in twelve months, 288.

During the second period there were admitted 230 men and 98 women, making a total of 328. Whole number treated, 903. There were 211 vacancies created as follows:

Discharged, 122 (included in this number 19 deported to foreign countries); died, 89. Remaining in hospital September 30th, 692.

In reviewing the work done at the institution during the biennium I have arranged a table showing buildings constructed; improvements in various departments; additional lands cleared and put under cultivation; new roads and bridges built, etc.

It does not seem necessary to explain all this in detail but some departments require special mention.

The buildings completed and now under construction are all class "A," concrete and tile with tile roofs, and are as near fireproof as buildings of this class can be made, and have been planned in accordance with the requirements of the service since operating under changed conditions; that of receiving hospital, where all forms of insanity are cared for as committed from the various counties.

The laundry building is completed and is now in use for regular laundry work. The building was occupied on September 4th, 1916, and is highly satisfactory in point of service. It is probably one of the most modern buildings of this type in the west. The windows are all of opalescent glass, which affords a very soft and comfortable light for those employed.

The auditorium is nearing completion. This building will have a seating capacity of 800; and will be furnished with movable seats to afford floor space for dancing. A stage and dressing rooms have been

led for entertainments, religious services, etc., and in addition to piano and moving picture machine will be provided for the enament of the patients.

wo years ago I reported 159 acres of land cleared. Of this 159 75 are in the hospital grounds proper. The remaining 84 acres after cultivation. During this biennium 35 additional acres have cleared of timber and stumps, and 30 acres of this tract planted to es. These are now being harvested and show a yield of 150 tons, nearly double the required amount of these vegetables for our

this connection I desire to state that last year all vegetables conby the entire population were raised upon the farm except a quantity of onions. This year a sufficient amount of all vegehave been raised to meet the needs of the hospital, and in addi-50 tons of corn ensilage, 100 tons of clover and grain hay, and I tons of beets and mangels have been raised and stored which eed the entire herd now numbering 98 head.

ou will note by this that the self-supporting institution is rapidly ping, and it is an interesting record, considering that the first done on this section of logged off land, which was covered with ngton's heaviest timber, was in 1911, only six years ago.

The diversion dam constructed for the purpose of sluicing the around the reservoir, is operating successfully, and this will remote further outlay unless it be for the purchase of additional land serve the timber on the water-shed. Both reservoirs have been ly fenced against all animals.

ne following is a complete list of new construction and improvene ward building for men and one ward building for women and litorium now under construction.

e following buildings have been completed:

lundry, horse barn, cow barn, hay barn, implement shed, manure liquid manure tank, silo, milk house and root house; diversion t headwaters, enlarged and completed primary reservoirs; built tank; surfaced with crushed rock 7,000 feet of road; built new rom hospital to new barns, 3,000 feet, which is surfaced with; built bridge 125 feet long north of barns; fenced north and east state lands in sections 7 and 8; also along new roads, and ran I cross fences dividing lands into small tracts for pasture and

cirty-five acres have been cleared of stumps and are now under tion. Several hundred acres have been slashed and partially of down timber, from which we have obtained 1,680 cords of reparatory to blowing and pulling stumps beginning next spring. Veral acres of land about the buildings have been leveled and down to lawn. Eighty-six shade trees were set out last spring,

and many vines and shrubs were planted about the buildings and grounds.

The electric lighting and telephone lines between the hospital and farm buildings have been replaced along the new road, the change being necessary on account of the new buildings interfering with the old lines.

The surgical department has been equipped for ordinary work, but much more is needed to provide complete equipment.

Three hundred volumes of the standard authors forms the nucleus of a library for the use of the patients.

#### RECOMMENDATIONS.

The estimated cost of buildings and other improvements as shown on the following sheets, have been furnished by architects, who have made plans for buildings, and engineers who have made surveys of the proposed improvements.

Two male ward buildings	140,000 00
One wing to complete female ward building	28,000 00
One tubercular ward building	40,000 00
One nurses' home	87,000 00
One commissary and store house	17,500 00
One cow barn	8,000 00
One feed shed	2,000 00
Feed shed equipment	1,000 00
One piggery	3,000 00
One green house	2,000 00
One morgue building	5.000 00
One permanent power house and necessary equip-	•
ment	35,750 00
Household furniture and equipment	12,000 00
Concrete trestles and supports for main water line	
including storm sewer, new water mains, etc.	13,000 00
Shop equipment	2.250 00
Laundry equipment	5,000 00
Surgery and hydrotherapeutic department	10,500 <b>0</b> 0
Aditional filter bed	3,000 00
Entertainments, amusements	1,500 00
Land clearing, fencing, nursery stock	7,000 00
Completion auditorium basement	3,000 00

Two Ward Buildings.—These two buildings will be needed to properly house and care for the increase in population during the period from April 1, 1917, to March 30, 1919, as shown by the following figures:

Present normal capacity	520
Present population	
Estimated increase based on total gain past 14 months	
Estimated population 3-31-19	
Normal capacity of buildings when buildings under con-	
struction are completed	760
Total capacity including new wards as planned	
Estimated grand total in and out of house March 31, 1919	

Note carefully the crowded condition of the wards as shown by a figures, and that the expected population will tax the buildings apacity.

The additional wing for the female ward will almost double its city and will provide a sufficient number of beds to provide for expected increase in this department of the service.

We are now receiving patients from nine counties in the state, ng a larger population than either of the other two districts, as a result our growth is more rapid than that of the other intions.

Tubercular Ward Building.—A number of patients are afflicted tuberculosis in the varying stages of the disease. Some of these lop the condition after years of residence in the hospital, being illy susceptible as a result of their mental disturbance, while too nently patients are committed from other hospitals in an advanced of the disease. All these must be cared for in the general ward lings, as there is no special department constructed or equipped the isolation and care of these cases, and while all possible care protection is given, the danger of the spread of the disease is great, owing to the inability of those affected to co-operate with physicians and nurses in the management of the case.

Modern treatment requires that these cases be housed in a buildespecially adapted to their care, and apart from other hospital lings.

Plans have been made for such a building, to be of permanent proof construction, sanitary in every detail, and to accommodate hale and 16 female patients.

It is planned to place this building on the west side of the state erry, on high ground, and make it independent of the hospital er, and isolate and treat all cases affected by this condition in building.

Nurses' Home.—During the development of the institution no proon has been made for the housing of the employes, except that in of the wards, rooms were provided for the nursing staff only. ry available space has been utilized to house the employes. In y instances these rooms are very uncomfortable and undesirable ters.

For instance—the night watches are obliged to remain and sleep he cottages where 100 patients are confined. Their rest is freatly broken and disturbed by the noises incident to the care of this ber of people during the day.

The day nurses also sleep in the same building where they are loyed thirteen hours a day. Other quarters should be supplied for a nurses, which will give them a change of scene and surround. The rooms vacated by them would increase the capacity of the is for patients.

I recommend that a nurses' home be provided in accordance with the plans submitted, feeling that such a building will materially increase the efficiency of the employes, and promote the welfare of the patients under their care.

Commissary Building.—The supplies for the maintenance of the entire population, now totaling 750 people, are purchased semi-annually and shipped to the institution in April and October of each year, in car loads and less.

No provision has been made for the storing of these goods and in the past we have been obliged to order our goods shipped as needed, at an increased cost, because we were unable to store and care for them in the amounts called for in the contracts. These goods have been stored in old frame buildings and basements, and in many instances resulted in damage and loss.

The old temporary store house used last year collapsed, and we were obliged to raze and remove it this fall. It will be necessary to construct some building for the storing of these supplies, and I recommend that a concrete, fire and rat-proof building be constructed in accordance with the plans submitted.

Cow Barn, Feed Shed, Piggery, Etc.—The barn built last year contains 80 stalls. We now have 98 head of stock, and there will be a steady increase in the herd, as it is the intention to raise as much stock for beef as grazing lands will care for, and to increase the number of milch cows until sufficient butter can be produced to meet the needs of the institution.

In view of these plans, one additional barn will be needed as soon as it can be built. The present barn can be duplicated from plans at the office.

In connection with the barns, a feed shed properly equipped for the preparation of food for the herd, according to modern dairy methods, should be built. For these buildings and equipment \$11,000.00 is needed.

A piggery has been built on the lands to the northeast of the hospital buildings, located in accordance with the Olmstead plans. Sufficient funds were not available to complete this department. I would recommend that \$3,000.00 be appropriated for the construction of a concrete feeding pen and slaughterhouse.

Greenhouse.—We now have 120 acres of land under cultivation, and as this is the most northerly institution in the state, it is difficult at times to get the crops in in proper season for best results. A greenhouse would enable us to start our plants early, to be transplanted, and to raise and care for many of the plants and shrubs necessary for the improvement of the grounds. Two thousand dollars will be required for this building.

Morgue Building.—When a death occurs at the hospital it is necessary for us to hold the remains until relatives can be notified, and ar-

gements made for their removal. Frequently we are obliged to these remains two days, and as no special room or building has a provided for this purpose, it results in a somewhat serious invenience.

To improve this condition I would ask that a small morgue build-be erected, which will provide a morgue room, columbarium, labory and post-mortem room. A suitable building can be built for 20.00, and is very necessary for the best interests of the institution. Power House and Installation of Equipment.—The completed plans he power house show four boilers. Two of these have been installed, with three generators, furnish heat, light and power. This equiptit is housed in a temporary building, one-half the size originally aned, constructed of frame and corrugated iron with a wood roof the engine room.

As now planned, fourteen of the nineteen buildings will have been pleted in 1919, and it will be necessary to install one additional er with automatic stoker. Until last winter we had been able to an sufficient wood for fuel from the down timber on the property, as the remaining wood became so scattered and so far away from power house we were obliged at this time to purchase mill wood to the demands, and in addition to this we were obliged to purchase tons of coal, as the mills were unable to furnish the usual supplying the cold weather of December, January and February of last r. It is only when the local mills are running to full capacity that can depend upon this source of supply, and this is too uncertain for institution of this class and size, so preparation for coal burning at be made.

It is planned to install one additional boiler with automatic stoker, a second stoker to be connected with boiler No. 2 now installed, ring boiler No. 1 with a wood grate to burn the wood as taken in the farm lands.

This additional equipment will require the completion of the power se as originally planned, and I would ask that an appropriation be le for the erection of the permanent power house, as further outlay the old temporary building by repairing and extending to provide new boilers would not be economical or advisable.

Household Equipment.—The item of household furniture and equipment, for which \$12,000.00 is recommended, is for complete furnishes for the proposed new buildings, and to complete the furnishings the buildings built during this biennium. This item has not been uded in the estimates of cost and of the new buildings asked for. Under the new system these items are taken up separately in er that the same may be provided for by an appropriation to cover cost of each.

Water System.—The protection of our water supply is the most portant matter under consideration at this time. The source of this upply is from the mountains about three miles north of the hospital.

The system consists of a diversion dam; primary and secondary reservoirs; the latter being two and one-half miles from the hospital. From here the water is conducted through a ten inch wood stave pipe to the powerhouse. In the course of this pipe line are four ravines which are crossed with wooden trestles supporting the pipe line. These were built five years ago and are now badly out of line from settling. Through two of these ravines there is a large flow of water during the winter and spring, and on one occasion during the past winter seven of the supports were washed out as a result of a sudden rise of water during the night, causing a sag in the line which opened a joint in the pipe connection. Supports were placed to prevent further damage, but it was only by turning the flow of the stream by ditching, and a liberal use of dynamife that a complete wash-out of the line was prevented.

To prevent further damage and a possible loss of our water supply these trestles should be replaced with concrete and steel structures of sufficient width to carry the pipe lines and steel bridges.

It is necessary several times a year to visit the headwaters to inspect and cleanse the reservoirs, and to reach there we are obliged to travel nine miles by county road. If a road and bridges were built along the course of the pipe line the distance would be only three miles.

Much of the wood and timber remaining is in this section, and it seems to me that bridges should be built that would provide a road and carry the pipe line as well. This work could be done more economically at this time than later.

The estimated cost of this by a competent engineer who has been over the ground is placed at \$9,665.00, for permanent concrete and steel trestles to span the four ravines along this line, a total of 802 feet.

The extension of the water line from the power house to the administration building and cottages is a three inch pipe. With the addition of the new buildings this pipe will be much too small to furnish the ordinary house pressure, and before the baths now being installed in the new buildings can operate successfully, and without injury to the service in other departments, the lines must be replaced with a six inch main which will supply all future demands.

A new three inch line to the farm buildings is needed to replace the one inch line formerly used to supply the old temporary buildings. This line should run from the main north of the power house about 1,000 feet, by the piggery and site of green house to the barns. The old three inch line removed from the administration building to be used as a part of the new line to the farm buildings.

Shop Equipment.—In recommendating the purchase of iron and wood working machinery I have in mind not only the advantage of immediate repairs to our plant, but the welfare of the men under treatment. Many of these are skilled workers in various lines, and would be greatly benefited by employment along the lines for which they have been trained.

With this machinery a great deal of the furniture needed for the is can be manufactured. Such employment keeps these patients or contented while under treatment, and increases their chances recovery.

Laundry Equipment.—The new laundry building recently completed ow occupied, and is very satisfactory. It is light, spacious, well ed and ventilated, and especially well adapted for institution work. need only additional machinery to meet the gradually increasing ands.

The machinery now in use was purchased five years ago when the population was less than 300, and is now inadequate for the serrequired for a population of 763.

Surgical and Hydrotherapeutic Departments.—Many of our patients ire surgical treatment to relieve physical suffering, and many imant operations have been performed during the past year. Frequenties patients, owing to their mental condition, are unable to assist physician or surgeon in making his diagnosis, and for this reason ould urgently request that an X-Ray machine be furnished in contion with this department in order that we may give the patients treatment that they require and that is demanded by the public and ession in all hospitals.

During the construction of the administration building rooms were ided for hydrotherapeutic departments, but these rooms have been equipped. As we are now receiving many acute cases of inty, it is very necessary that these patients have the advantage of modern and beneficial agent. I would recommend that \$8,000.00 ppropriated for the completion and preparation of the rooms, and allation of complete hydrotherapeutic equipment.

Filter Beds.—Of the ten filter beds shown on the plan of the Imsewer system, the first unit only was constructed four years ago are for a population of 250. Our present population is 750, and it is erative that additional beds be built to act in conjunction with the septic tank just completed, for final treatment of the sewage.

Land Clearing.—I would recommend that \$7,000.00 be appropriated the purpose of clearing land, erection of fences, purchase of nurstock for setting out orchards, shade trees and shrubbery.

Under this item of \$7,000.00 is included wire fencing for enclosing e tracts and dividing them into smaller tracts for grazing, etc.; nursery stock, which will be necessary at this time, as sufficient has been cleared to provide for the setting out of orchards, shade and shrubbery.

Auditorium Basement.—I would recommend that \$3,000.00 be apriated for the completion and furnishing of the first story full ment of the auditorium building, now under construction, designed

for social rooms for the employes. This was not included in the contract for the building, as the appropriation was not of sufficient amount to cover cost.

It is necessary that such quarters be provided for recreation and amusement of the employes in order that the services of the very best nurses and other employes may be secured and continued.

Storm Sewers.—A large amount of vitrified sewer pipe is needed to drain the roads and grounds of surface water resulting from the heavy rainfall during the winter months.

In the past the water has frequently formed small lakes about the grounds, seriously damaging roads and making hauling over them almost impossible, and finally draining into the basements of the buildings where it slowly drains away through the storm sewer system. For this purpose I would recommend an appropriation of \$4.000.00.

Repairs and Improvements.—While the institution is new, numerous repairs are required during a two year period as a result of breakage, repainting, replacement of furniture, glass and other items. For this purpose I ask that \$2,500.00 be appropriated.

In conslusion, I desire to express my appreciation to your board for your co-operation and support in the many important matters considered this two-year period of construction and development of the institution, the consciousness of which has made me better able to conduct the affairs of the institution; also to thank the officers and employes for their assistance.

Respectfully submitted,

J. W. Doughty, Superintendent.

						DISCH	DISCHARGED						
DIMANA	Adm	Admitted	Reco	Recovered	Impr	Improved	Unim	Unimproved	Dep	Deported	Not I	Not Insane	
MONTHS A	Male	Female	Male	Female	Male	Male Female	Male	Female	Male	Female	Male	Female	
1914 October December 1915	21 146	នដ											
January February March March June July August September		14 1 1 1 1 2 2 1 2 2 2 2 2 1 1 1 2 2 2 1 2 2 3 3 3 3		61 - 61 mm	61 10	-		1					
Totak	258	8	13	9	7	1		1					
1915 October October December December Janger January February March April July July September	1288 8812812121	**************************************	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	H 63 69 HH 80 00	∞ 61 © ∞			61	61 4-4- 0				
Totala	8	8	   	16	<u> </u> =	6	65	6	12	64	-	6	

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2

Female : 절 Male 앎 ដ Female : : : : : : : Escapes Not Returned Male 22 2 Female : : : : Escapes Returned Table No. 1.—Showing Movement of Population—Concluded. Male 23 Fernale Paroled Not Returned 엄 Male 2 Female Paroled Returned : Mak Transferred to Eastern State Hospital Female : : : Make ø Transferred to Western State Hospital Fernale Male Totals.... July Angust September March ..... March MONTHS August ... September October .. January . February January February November December 1916 December October April May June July April May June July

Table No. 2.

HOWING ADMISSION OF PATIENTS FROM COUNTIES.

		ear Endi ember 30		Year Ending September 30, 1916			
COUNTIES	Male	Female	Total	Male	Female	Total	
1	2 1		2 3 2	2	1	3 2	
n	i	l il	2	5	i	l å	
	58	26	84	157	58	210	
	1	1	2	7	6	13	
					1	1	
	8	2	5	14	8	17	
nish	12	5	17	21	12	33	
AD	1		1	8	2	5	
erred from Western State Hospital,	6	8	8.	19	14	33	
Stellacoom, Washington	168	58	221	1	1	2	
al Lake, Washington	• • • • • • •		• • • • • • • •		1	1	
oe, Washington	• • • • • • • •			2		2	
otals	258	93	346	282	96	328	

Table No. 3. VING NUMBER OF ADMISSIONS, RECOVERIES, DEATHS, ETC.

YEAR ENDING	Admissions	Whole Number Treated	Discharged—Recovered	Discharged—Not Recovered	Discharged—Not Insanc	Deported	Died.	Escaped	Remaining	Increase	Per Cent of Recoveries to Admissions	Per Cent of Deaths to Whole Number Treated
tember, 1915—												
d from Western State Ital, Fort Stellacoom,												
ed	221 125	639	19	18			26	15	575	275	5.491	4.107
tember, 1916—												
d from Western State Ital, Fort Stellacoom,												
d from Eastern State ital. Medical Lake.	Z	••••	• • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • •	• • • •	••••				••••	• • • • •
d from Washington	1	••••					••••	••••	••••	••••		
Reformatory, Mon- Washd	2 323	902	 67	30	6		 89	22	692	117	 20.426	9.843
'otala	874	_	96	48	6	19	115	37				

Table No. 4.
SHOWING CIVIL CONDITION OF PATIENTS ADMITTED.

CIVIL CONDITION		m Octobe 1914, to ember 30,	•	From October 1, 1915, to September 30, 1916			
	Male	Female	Total	Male	Female	Total	
Married	47	54	101	79	66	145	
Single	163	81	194	118	17	135	
Widowers or widows	10	5	15	14	8	22	
Divorced		1	5	4	3	7	
Unknown	5 28	8	31	17	2	19	
Totals	253	98	346	232	96	328	

Table No. 5.
SHOWING NATIVITY OF PATIENTS ADMITTED.

COUNTRIES		ear Endi ember 30			ar Endi mber 30	
	Male	Female	Total	Male	Female	Total
Austria	11	1	12	9	4	13
Assyria	1		1			
Azore Islands				1		1
Belgium	1	l <u>.</u>	1	• • • • • • • • • •		·····
Bohemia	••••••	1	1	2		2
Bulgaria	1 2		1	· · · · · · · · · · · · · · · · · · ·		·····i
China		<u>-</u>	2	1	···· <u>·</u> ··	15
Canada Denmark	9 2	7	16	12 6	8	6
England	7	4	2 11	8	8	11
m. 3	10	1 1	ii	9	2	9
Finland	4	i	5	á	li	يّ ا
Germany	14	5	19	5	ŝ	10
Greenland	14	ľ	1			
Greece	2	1 *	2	2		2
Galacia			-	ī		l ī
Holland			• • • • • • • • • • • • • • • • • • • •		1	1
[reland	12	2	14	5	3	8
Iceland	2	l <del>.</del>	2	2		2
[talv	2	i	8	2	1	3
Japan	ī	2	8	2	1	3
Korea	ī		ĭ			
Montenegro	ī		ī	1		1
Norway	18	4	17	14	7	21
New Foundland	1		1	2		2
New Brunswick	2	l	2	2		2
Nova Scotia	1		1	2		2
Philippine Islands	1		1			• • • • • •
Poland	3		8	1		1
Prussia				1		1
Russia	4	1	5	4	1	5
Roumania	1		1	• • • • • • • •	• • • • • • • • • • • • • • • • • • •	15
Sweden	29	7	86	8	7	3
Scotland	8	2	5	8		ı I
Spain	• • • • • • • •			1		9
Switzerland	4		4	1	1 56	168
United States	94	52	146	113	90 1	12
Unknown	14	1	15	11		
Totals	253	93	346	232	96	328

Table No. 6.

# SHOWING OCCUPATIONS OF PATIENTS ADMITTED.

0.00000 1.00000		m Octob 1914, to ember 30,		From October 1, 1915, to September 30, 1916			
OCCUPATIONS	Male	Female	Total	Male	Female	Tota	
		1					
	2	1	1 2			*****	
	3		8				
••••	1	*******	1	1			
************	1		1				
	1		1	2		1	
********************	1	*******	1	1			
	1		1				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3	******	3	2 2			
****************							
	7 2		7	10	1		
		2	1	*******	1		
· · · · · · · · · · · · · · · · · · ·		1	3	4	2		
				1			
		*******		2			
				1			
	*******	*******		1	*******		
				1			
	2	14	16		11	1	
*****************							
********************		******	1	1 3			
		*******	1 9				
				1	******		
	34			1 29		3	
			4	7		1	
******************					1		
			4.0.0.0.	1	vivasiri.		
			1				
		******	*******	2	*******		
		52	52		61	1	
	******	******	******	1			
		*******		1			
	4	******	1	1		ece.	
		*******		2			
	97					1	
	2		- 22	4	******		
	3		3		merer.		
	1	*******	1		++++++	++++	
	12		12	7			
		*******		1			
*******************		*******	2	2	1		
	2	********	naidy and		*******		
	1	******	1	3		3.44.5	
	3		1 3	1			
				1			
	11	******	11	2	*******		
	1 2		1	1			
***************************************	2	*****	2	1	+++		
		******	******		1		
	******	*******		*********	1		
			*******	1	*******		
********************	******	i	1	1			
	12022224			8	5		
******************	1		1114111	1			

Table No. 6.—Showing Occupations of Patients Admitted—Concluded.

		m Octob 1914, to ember 30	From October 1, 1915, to September 30, 1916			
OCCUPATIONS	Male	Female	Total	Male	Female	Tota
Prostitute		1	1	<u>.</u>		
Physician	1		1	. 1		1
Plumber	1		1	1	[. <b></b>	1
Plasterer				. 2		1 1
Painter				4	l	1 4
Photographer				i		1 1
Pile driver	1		1	Ιĺ		1
Pianist	<del>-</del>		l <del>.</del>	l i		l i
Quarryman	2		9.		1	1 1
Railroad agent	_			i	1	
Real estate dealer	·····i		1	2		1 4
Railroad man	i		î	l î		1 1
	4	1	4	i		ĺ
Sailor	4		4			1 1
Saloon keeper		• • • • • • • • •		1		, ,
Shingle weaver	1		1	3		8
School teacher		1	1	1		1
Stenographer	1	1	2		<b></b>	
Student	1	1	2	2	5	1 7
Seamstress		1	1		1	] 1
Shoemaker	1		1	3	l	1 3
Steward				1 1	1	1 1
Steamfitter				1		1 1
Trained nurse		1	1	l		1
Teamster	8		3	3		
Tailor	ĭ		ĭ	2		9
Traveling salesman	î		î	"		1
Telegraph operator				i		li
				i		Ιi
Tinner			• • • • • • • •	i	• • • • • • • • • •	li
Theatrical business man						18
Unknown	21	15	36	13	5	19
Woodsman	2		2	1		'
Waiter	2		2	8	. 1	1
Watchmaker	1		1			····:
Writer				1	• • • • • • • •	1
Totals	253	98	846	232	96	323

Table No. 7.
SHOWING ASSIGNED CAUSES OF DISEASE.

CAUSES OF DISEASE		ear Endi unber 80		Year Ending September 30, 1916			
CAUSES OF DISEASE	Male	Female	Total	Male	Female	Total	
on					1	1	
1	17	4	21	17	8	20	
o-scierosis	1		1	1		] 1	
жу				6	1	7	
fever	1		1				
nital	2		2		<u>.</u>		
al lues	2		2	7	3	19	
ation				1	• • • • • • • •	]	
ву	5	2	7	8	4	7	
**************************************		1	1				
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m	159	49	208	124	41	16	
	6	6	12	5	6	1	
over love affair	1	J	1	·····	·····		
over family trouble	1	4	5	2	2	1 '	
Potals	253	98	346	232	96	828	

Table No. 8.

SHOWING FORMS OF MENTAL DISEASES OF PATIENTS ADMITTED.

Dign. and		m Octob 1914, to ember 30	•	From October 1, 1915, to September 30, 1916			
DISEASES	Male	Female	Total	Male	Female	Total	
Dementia Praecox:							
Hebephrenic	88	23	111	31	19	50	
Catatonic	19	7	26	6	2	8	
Paranoid	18	7	25	13	7	20	
Mixed	1	1 ,	2	31	8	34	
Defective Mental Development:	_	1 . 1	_	l		1	
Idiocy	1	1	2				
Imbecility, high grade	5		5		1		
Imbecility, low grade	1	1 1	2	[	Í		
Constitutional inferiority	7	1	7	11	3	14	
Epileptic psychoses	6	6	12	9	5	14	
Manic-depressive Phychoses:		1				l	
Manic type	6	7	13	111	13	24	
Depressed stype	20	12	82	-6	92	28	
Mixed type	~4	5	9	6		6	
Organic Dementia:	-	"	•	1		ľ	
				١ .	l .	٠.,	
Cerebral apoplexy	4	1 1	4	9	1	10	
Cerebral syphilis	4	2	6	1	4	5	
Arterio-sclerosis	2	2	4	1	1	2	
Traumatic psychoses	2		2				
Posterior lateral sclerosis				1		1	
Paranoia	1		1	10	1	11	
Paresis	10	l l	10	43		43	
Symptomatic Psychoses:		1					
Huntington's chorea	2	l l	2	İ	<b>.</b>		
Toxic Psychoses:	_	1	_				
Alcoholic	16	4	20	18	1	19	
Miscellaneous	10	1 • 1	20	2	•	1 2	
Senile Psychoses:	• • • • • • • •		• • • • • • • •	-		٠ ا	
Pre-senile						l	
	7	1 1	. 8			····	
Senile	20	8	28	19	8	27	
Presbyoprenia	1		1				
Involutional melancholia	8	5	8		8	3	
Infection psychoses	· 1	1	2		• • • • • • • •		
Traumatic psychoses	<b></b>			3		3	
Not insane	4		4	1	8	4	
Totals.	253	98	846	232	96	328	

Table No. 9. SHOWING AGES OF PATIENTS ADMITTED.

_		ear Endin ember 30		Year Ending September 30, 1916			
AGES	Male	Female	Total	Male	Female	Total	
m 15 to 20 years. m 20 to 25 years. m 25 to 30 years. m 30 to 35 years. m 30 to 35 years. m 40 to 45 years. m 40 to 45 years. m 45 to 50 years. m 55 to 60 years. m 55 to 60 years. m 65 to 70 years. m 65 to 70 years. m 70 to 75 years. m 75 to 80 years. m 75 to 80 years. m 75 to 80 years. m 75 to 80 years.	82 21 21 14 8 6 4	4 10 7 23 12 8 7 5 5 5 8 2	8 24 88 64 46 40 28 26 19 11 8 5	4 18 28 37 34 19 23 16 13 12 10 4 5	5 11 10 9 9 12 9 13 6 1 4	9 29 38 46 45 31 31 20 19 13	
u 80 to 85 years. n 85 to 90 years. n 90 to 95 years. lown			26	1 6 232	1 96	328	

Table No. 10. Showing ages of patients who died in hospital.

		ear Endi ember 30		Year Ending September 30, 1916			
AGES	Male	Female	Total	Male	Female	Tota	
15 to 20 years. 20 to 25 years. 25 to 30 years. 30 to 35 years. 35 to 40 years. 40 to 45 years. 50 to 55 years. 50 to 55 years. 50 to 65 years. 60 to 66 years. 65 to 70 years. 75 to 80 years.	5 2 4 4	1 2 1	5 8 4 6 1	1 1 3 10 6 5 6 5 7 2 4 3	1 1 2 2 1 5 4 4 2 2	1 1	
80 to 85 years 85 to 90 years 90 to 95 years				1 1 8	1		
Totals	21	5	26	62	27	8	

Table No. 11. SHOWING CAUSES OF DEATH.

CAUSES		ear Endi ember 80		Year Ending September 30, 1916			
CAUSES	Male	Female	Total	Male	Female	Total	
Arthritis deformans			<i></i>	3	1	1 3	
Aortic regurgitation Aortic stenosis Bronchorrhea Burns of face, neck and chest Chronic intestinal gastritis Chronic paragraphymatous nephylitis				1		1 1 1 1	
Chronic intestinal gastritis. Chronic parenchymatous nephritis. Cerebral apoplexy Cerebral embolism Cerebral hemorrhage Chronic valvul Cancer of uteris.				4 1	2	6 1	
Chronic bronchitis Carcinoma of stomach. Cerebral syphilis Chronic endo-myocarditis Dementia et exhaustion.				1	1 1	1 1 2	
Double strangulated hernia.  Erysipelas  Epileptic convulsions  Epilepsy, exhaustion from  Edema of larynx.				1 2 1		i	
Epitholioma with metastasis.  General paralysis General parasis Luetic epilepsy Mania et exhaustion Melancholia et exhaustion. Mesentric embolism	2		2	18 1	2	13 13 1 5	
Organic dementia Perforation of pleura. Pyelo nephritis Pulmonary hemorrhage				1 1 1	1	1 1 1 1	
Pneumonia, broncho Pneumonia, bobar Sarcoma over left parietal region Tuberculosis, pulmonary Unknown (died on parole)	2 4		2 5 1	2 7 1 8	2 3	10 1 1 12	
Totals	21	5	26	62	26	88	

Table No. 12. OWING NUMBER OF ATTACKS OF PATIENTS ADMITTED.

ATTAOKS		ear Endi ember 80		Year Ending September 30, 1916		
ATTAOKS	Male	Female	Total	Male	Female	Total
dth	109 28 5 2	47 16 2	156 44 7 2 5	108 29 8 3 2	56 13 8 1	164 42 16
own	107	25	182	82	16	96
Totals	258	98	846	282	96	828

Table No. 13. SUMMARY.

		ear Endi ember 30		Year Ending September 30, 1916			
	Male	Female	Total	Male	Female	Tota	
ents in hospital at beginning of term. ved from Western State Hospital, rt Stellacoom	189 168	98 58	287 221	398	177	575	
iteal Lake ved from Washington State Re- matory, Monroe tted Total in hospital during term	85	40	125	2 229	94	323	
nts discharged—Recovered	18 7	6	19 8	46 15	21 2	67	
nts discharged—Unimproved	21	5	1 26 8	8 17 4 62 1	2 2 2 27 1	19 6 89	
sferred to Western State Hospital  Number of vacancies created	45	18	58	151	60	211	
Number of patients remaining at the end of the term			<b>5</b> 75			692	

# STATE INSTITUTION FOR FEEBLE MINDED.

# MEDICAL LAKE, WASHINGTON.

For the Biennium Commencing October 1, 1914, and Ending September 30, 1916.

MEDICAL LAKE, WASH., September 30, 1916.

Hon. State Board of Control, Olympia, Washington.

GENTLEMEN: In accordance with the law, I have the honor to submit the report of this institution for the period commencing October 1, 1914, and ending September 30, 1916.

The following is the movement of population for the two years:

	Male	Female	Total
Present Oct. 1, 1914	126	126	252
Admitted Oct. 1, 1914, to Sept. 30, 1916	239	148	387
Readmitted during the same period	23	25	48
Total enrollment for the period	388	299	687
Discharged during the two years	67	37	104
Died during the period	20	18	38
Eloped	5	1	6
Total vacancies created	92	56	148
Present Sept. 30, 1916	296	243	539
	388	299	687

A large proportion of the discharges reported above, as well as the readmissions, are for inmates that go home during the summer vacation, or for short visits. All that leave and do not return before the first of the following month are discharged and dropped from the rolls. Most of them return when there is room or will likely return at some future date.

The five new buildings nearing completion at the time of my last biennial report, were completed and the boys moved into them January 13, 14 and 15, 1915. As there were about 200 applicants on the waiting list at that time, the opening of the new buildings was the occasion for a very heavy increase in our population. From January 20th, to 31st, we admitted 99.

We only had 252 inmates at the beginning of the period, October 1, 1914, and during the two years past have admitted and readmitted 435 and the number of inmates now present is 539.

With such a great increase in so short a time, it has been considerable of a task to get them classified and organized under the new conditions, particularly as we occupy two institutions a mile and a quarter apart. But these difficulties are fast being overcome and the work established on a good basis.





STATE INSTITUTION FOR FEEBLE MINDED: -VIEW OF COLONY.

#### FINANCIAL.

At the time of my last report, Sept. 30, 1914, the unexpended balance for maintenance for the fiscal period ending March 31, 1915, was

The following appropriations were made by the Legislative Assembly of 1915:

Maintenance	\$210,000	00
Buildings, central heating plant, laundry, fencing, equip-		
ment, etc	296,000	00
Purchase of land	16,000	00
Of the appropriation for maintenance, for the present		
fiscal biennium ending March 31, 1917	210,000	00
We have expended to date the sum of	131,710	26
Leaving a halance evallable for the next six months of	£79 990	74

I estimate that our expenditures on this account for the next six months will be approximately \$64,000.00, which will leave a balance unexpended from the Maintenance Appropriation, of about \$14,000.00

We based our estimate for the present biennium on 500 inmates at .57½ cents per day per capita. As the buildings were not opened as soon as expected, our daily average attendance did not reach 500 and we have been able to keep the per capita cost below 57½ cents.

The average daily attendance for the institution biennium has been 438.419 and the daily per capita cost for maintenance has been but .5307 for the period.

#### **BUILDING APPROPRIATION.**

Of the building appropriations of	\$296,000	00
We have expended the sum of	229,344	43

Leaving a balance unexpended at this date of.......... \$66,655 57

which will be expended within the next two months under existing contracts and liabilities.

With this money we have done an enormous amount of building, consisting of an administration building with a large rear annex for the culinary department, central heating plant and concrete smoke-stack, laundry, custodial building and two cottages.

The administration building is practically a four story structure, although a broad flight of concrete steps leading from the ground to the main floor gives it the appearance of three stories and basement. The dimensions of the main structure are 131x48. Until a separate school building is provided, the basement is arranged for the girls school department and consists of one large general school room and

four good sized class rooms, toilets, entrance hall and corridor. A concrete stairway leads to the main floor above and there is also at entrance from the outside.

The main entrance leads from a large veranda into a spacious ves tibule and thence into a handsome octagonal rotunda, extending for the present through the second story, but framed so that it can even tually be carried through to the dome, if desired. Opening to the right is the general information office, in which is the stenographer telephone switchboard and postoffice. To the north, on one side of a broad corridor are the offices for the physicians, record room and superintendent. On the other side of the corridor are the offices of the steward and accountant, clerk, dispensary and matron. To the south of the rotunda, on one side of the corridor is the reception room for visitors and the library and on the other side, the officers dining room. pantry and closets, and passage way to the rear annex. Off the rotunda there is also a passage way to the rear entrance, toilets, a fireplace and marble stairway leading to the floors above. The lighting of the rotunda and all rooms and halls is excellent, there being an abundance of daylight everywhere. On the next floor are the living rooms of the Superintendent and Board of Control. The entire upper floor is at present arranged as a large assembly hall, with a stage in one end, for the entertainment of the inmates and for chapel services on Sunday. At one end is a large iron fire escape. There are also small retiring rooms, toilets and dressing rooms. Sometime in the future, when a separate auditorium and gymnasium is provided, this floor can easily be converted into apartments for officers and teachers, the same as the floor below, to meet the future requirements, as the institution grows. There is no wood used in the construction of this building, except the doors, windows and maple floors laid on reinforced concrete. To the rear of the main structure is a corridor leading to a two story building 72x35. On the first floor is the bakery, staff kitchen, pantries. toilets and bread room. On the second floor are apartments for officers. This floor is also connected by a corridor with the second floor of the main building. Connecting with this annex, to the rear, is a one story structure 72x75, in which is the kitchen, employes' dining room. kitchen storeroom, scullery and vegetable room. To the rear of this is a one story building 43x191, containing two large dining rooms and pantries for the inmates. A broad, well lighted corridor runs from the main building through all these annexes, from which the various rooms described open, the administration and the annexes being virtually one This building, the power house and cold storage building when erected, will form the dividing line between the sexes.

The girls' custodial building consists of a central structure 38x138, with two wings each 114x43, being two stories high and having a total frontage of 266 feet. It is a duplicate of the one erected two years ago, except that instead of having stairways leading to the dormitories on the second floor, we have provided inclines, so there will be no

danger of the weak and epileptics falling down stairs. Entrance to the dining room from the wards is from the corridors instead of from the centers. Dormer windows are also built in the roof, affording light and ventilation in the attic. This building will accommodate 120 inmates, besides affording rooms for about 18 employees.

The two cottages are each 94x66, two stories high. The exteriors are the same as the three built two years ago, except that there are dormer windows in the roof to light and ventilate the attic. The interior arrangement however, is entirely different and I think a great improvement over the boys' cottages. They each hold 77 beds and are well equipped with fine, large living rooms, clothesrooms, baths, toilets, cloakrooms, etc.

The laundry consists of a one story section 28x42 for an ironing room and is equipped with a 100 inch 4 roll flat work ironer and four adjustable ironing boards. The rear section is 28x62 and will be equipped with 2 brass washers, extractor, drying tumbler, dryroom and soap tanks. Also a sorting room. These rooms are light and airy and well ventilated.

Two steam aluminum kettles of 100 gallons capacity each and a battery of large coffee and tea urns have also been ordered and will soon be installed in the kitchen. A large brick oven has been built in the bakery.

The boiler house is 56x54, one story, about 19 feet high and the concrete smokestack, now building, will be 66 inches inside diameter, and 150 feet high above grade, anchored in a concrete block reinforced, 8 feet deep and 19 feet square.

From the boiler house to each of the new buildings, runs a concrete underground tunnel, in which is carried all the steam mains and returns, hot water pipes, water supply and electric wires, thus doing away with all concealed and buried pipes. Everything is in sight, where leaks can easily be discovered and repaired. We are just completing 1,000 feet of this tunnel. The main tunnel is  $6\frac{1}{2}$ x $6\frac{1}{2}$  and the laterals 4x $4\frac{1}{2}$  inside. Being twelve feet deep in places, it required the removal of a large amount of earth. Teams could not be used and it all had to be excavated with picks and shovels. The boys and attendants did the major part of this work and our teams hauled the sand and rock, thus saving over \$2,000.00 in the cost of this work.

The vacuum system of heating will be used. Steam will be carried on the mains in the tunnel at a pressure of 20 to 30 lbs. and reduced to low pressure at each building, which I believe will give greater efficiency, besides allowing the use of smaller steam mains.

In the boiler house there are two 150 h. p. and 175 h.p. tubular boilers. There are also two large steel hot water tanks, of sufficient capacity for all domestic uses. In the laundry is another hot water tank, independent of the main supply, but which is heated with steam from the main plant. The vacuum pump sets in a pit 12 feet deep in

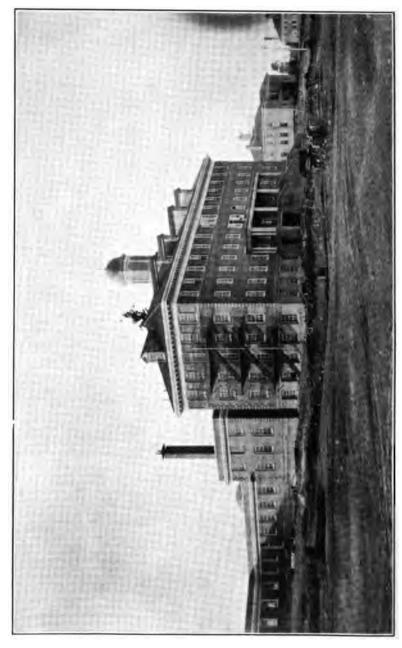
the boiler house, so that there is a gravity fall and no lift for the vacuum pump on the returns.

The administration building and all two story structures have green tile roofs. One story buildings have patent built up asbestor covering, guaranteed for ten years. All walls are brick on concrete foundations and partitions are of hollow tile. Except in rear annex and basement, floors are maple laid on reinforced concrete. Kitchens bakery, toilets and bathrooms have terazza floors. Other floors in the rear annex are cement, finished red. Corridors, stairways, baths, toil ets and day-rooms are wainscoted five and six feet high with Kellastone which seems to be proof against the destructive class we have to care for here.

Everything about the buildings is plain, but substantial looking and restful and homelike to the eye. The material and workmanship is of the very best. The full beauty of the architecture and arrangement of the village, will not become apparent for some years, when the additional units shall have become completed, the park system and roadways laid out and the trees grown sufficiently to relieve the present bareness. It will take some years hard work, but no great expense to get the grounds in order, the principal expense being for the permanent walks and surfaced roadways.

The appropriation of \$16,000.00 was made for the purchase of about 160 acres of land known as the Zeigler farm, lying between the buildings and a tract we own on the south shore of West Medical Lake. I was necessary that we secure this land for a right-of-way for the sewer line. Besides this, it is nearly all excellent agricultural land and i would only be a question of time when we would have to have it. thought the price high at the time, but am now convinced of the wisdom of the purchase. We are now farming it and took off a good crop from it this year, of hay, grain and potatoes.

The question of sewage disposal has been a perplexing problem All the surface water contiguous to the new site drains into Clear Lake, from which is obtained the water supply for the Eastern Hos pital, this institution and the town of Medical Lake. Immediately to the west of the buildings rises a high range of hills, the melting snow from which causes heavy freshets to come down past us at certain seasons, carrying the effluent from our septic tank across neighboring farms below and thence into Clear Lake. While our system of septitank, filter bed, aerating basin and a surface ditch 1,000 feet long purifies the sewage effluent before it leaves our premises, it is no comforting to any person who is compelled to drink the water from Clear Lake, to know that the sewage flow from an institution of severa hundred inhabitants, is eventually finding its way into the water sup ply, no matter how pure it is. During the dry season we have been able to care for the overflow by using it for irrigating, by seepage and evaporation. But in the wet season and the spring thaws, it cannot be ٠ .



controlled. In order to be sure that the water supply was not being contaminated, I had an analysis made and received the following report:

#### ANALYSIS OF WATER FOR F. M. SCHOOL.

Sample taken from an open ditch, April 22, 1916.

aside from algae the water contains at this season.

Representing the sewage stream from the Boys' F. M. School, after sedimentation in a soil basin and the passage of the outcoming water through a ditch some 1.000 feet long.

Water greenish due to green algae; which settles to bottom of container in a few minutes.

Intestinal organisms (B. Coli) present in 10 c. c.; absent in 1 c. c.

This would pass the Am. Pub. Health Assn. standard for drinking
water of poor quality. Many wells do not furnish water as good;

(Signed) H. A. FELDER.

Laboratory of E. H. S. I.

Nevertheless, some of this water, during the season of freshets, finds its way into Clear Lake. Suits have been threatened and frequent complaints have been made by land owners across whose land the water runs.

I secured the services of an engineer and had a line run to West Medical Lake. The elevation was found to be sufficient to utilize that lake for disposal of the surplus water, but owing to a rock cut over twenty feet deep and about 1,000 feet long, through a high rock dike to the north the cost of this sewer line was estimated to be \$17,940.00, which, in the absence of funds was prohibitive.

I then found that by running a line from the outlet of the septic tank. which disposes of all solids, we could use the low gradient of 3 inches in 100 feet and get fall enough to empty into the Lake, and escape for the present, the costly rock cut, by building a wooden flume around the rock bluff, which we have done and are now constructing the line across the Ziegler farm. We had no appropriation for this purpose, but in view of the grave emergency, felt justified in paying for this work from the maintenance fund. So far, most of the excavating has been by the boys, but we will have to hire some help in order to complete the work before winter.

#### IMPROVEMENTS.

Besides the construction of the tunnel and sewer line mentioned, many other improvements have been made, among which are the following:

The differential drainage system on the steam returns in the north south cottages at the girls' school was causing damage to the floors escaping steam, these being under the floors. New concrete pits constructed outside the buildings and the apparatus removed to

these pits by the engineer. The fences on all the land purchased the past few years were all in bad order. Much of this has been repaired and much new fencing built.

The old barn on the Zeigler farm has been practically rebuilt and now stalls 12 head of horses.

A substantial stone roothouse 28x60 feet and 9 feet deep has been built, with cement floor and roof and vegetable bins have been constructed. All the excavating and much of the other work being done by the boys and attendants.

A new orchard of about 800 trees has been set out and a large part of the small fruit bushes transplanted from the old site to the new.

The boys have filled in quite a large tract of land in front of the boys' custodal building and also done much grading elsewhere.

Sludge pipes were put in to drain the septic tank when necessary and a large earth dam built below the filter bed to make an aerating basin. Also about 1,000 feet of ditch dug below the dam, for an irrigation head and for further purification of the water.

Fly screens were made for four new buildings built two years ago.

The steam returns, which were under the floors in the north and south cottages at the girls' school, leaked so badly that some of the floors were being damaged. New returns were put in by the engineer on top of the floors and boxed in.

About 80 shade trees were planted along the proposed parkway fronting the boys' cottages.

Large quantities of stones and boulders have been gathered up from the grounds by the boys and much clearing done.

New sanitary springs have been put on about 180 beds in the girls' division, on the old beds, and the ladies are now painting the beds with white enamel, preparatory to moving to the new buildings, as we expect to take all our old furniture with us and renovate it as far as possible.

Much work has been done on the road from the new site to Medical Lake and all the sand, rock and gravel hauled for the tunnel, roothouse and other concrete work.

About 1,500 feet of 10 inch sewer was laid, with concrete manholes every two or three hundred feet and about 1,700 feet of 8x10 flume constructed.

A concrete box was built at the end of the septic tank, to divert the flow either to the new sewer line or to the aerating basin.

Several hundred feet of trenches have been dug for laying drains from the downspouts of the new buildings. Concrete sewer pipe is now being made for this purpose.

A large amount of repair work and improvements has been done by the engineer, besides much installation of apparatus and fixtures in the new buildings, which were not provided for in the contracts.

Twenty to thirty of the boys and attendants have been actively engaged in work on the farm and garden and with the teams and coal wagons.

The ground around the buildings has been platted and a topographical survey and cross section made, showing the elevation every 25 feet. Also parks and roadways platted.

Six horses and two wagons were purchased as well as considerable farm machinery.

There is considerable first class land in the tracts purchased the past few years, but it will be a year or two before it is in good order, having been neglected for some years and grown to mustard, wild oats and other weeds. The garden land is first class and produces enormous crops. I think we will have about fifty acres that will produce timothy or alfalfa. We are experimenting with alfalfa so far with good success. If we can raise alfalfa, it will mean a large saving when we get a dairy herd. We have about 200 acres of good grain land, which has produced good crops the past two years. As we have no stock as yet but some horses. We have had our surplus wheat ground into flour, which is of material assistance in reducing our maintenance expense.

Our most urgent need now is a dairy barn and silos. It is getting to be a difficult matter to get good milk here at a reasonable price. For the past ten years, I believe there have been but four occasions when competitive bids have been received for milk. We require such a large amount that there are but few dairies equipped to supply us. The cost of our milk will soon be in the neighborhood of \$6,000.00 per annum and I believe with a good dairy barn and herd of cows and silos, we could save one half this amount, as we will soon be able to raise a large portion of the feed for the cattle.

We are now raising practically all the vegetables consumed except when some seasons there is a failure of some particular crop. For instance, last year there was a short potato crop and this year the corn is almost a total failure. Potatoes here are almost always late and we always have to buy during July and August, as our old stock does not keep after June.

Many of the boys are being trained for farm work and from now on we will have better farm help. Considering the short time we have engaged in farming and with all the other work that has been going on the past two years, I think the record made by the boys on the farm during the biennium is very gratifying, showing, as it does, farm products raised of the value of \$6,703.99.

I hope that in addition to the dairy we can get some poultry houses and pig pens started, which we can increase as we find we can raise the necessary feed.

We have altogether about 640 acres of land, the classification of which will be found in the accompanying tables.

#### THE NEW SITE.

During the closing hours of the last Legislative session, there was practically a unanimous opinion that the two institutions should be consolidated and the building of one turned over to the Eastern Hos-

pital. In fact, an appropriation of \$2,500.00 was granted the Eastern Hospital for the purpose of remodelling the buildings at the girls' school to suit the requirements of the Hospital. But afterwards a difference of opinion developed, as to whether we were to retain the old buildings or the new. The appropriation bill as passed, provided that the new building to be erected should be according to plans and site approved by me. My views in that respect were fully set forth in my last biennial report. The only cause I would have for changing my mind, would be the question of sewage disposal.

I called in consultation Mr. Julius Zittel, architect and Mr. Otto Weile, civil engineer and Mr. Warren Truitt, our institution engineer. Mr. Zittel being an architect of acknowledged repute, Mr. Weile, being at one time city engineer of the city of Spokane and Mr. Truitt a competent engineer and mechanic by reason of being employed here, well acquainted with the working conditions. They all agreed with me that the new site while not as desirable as the old, could be made suitable for our purposes. That there was sufficient building area and that a sewage plan could be worked out so that the flow would not reach the water supply at Clear Lake.

I then took into consideration the following facts: That this institution would soon be one of the largest in the State and that by reason of its close proximity to the Eastern Hospital, the future growth and efficiency of both would be hampered; that the new buildings just completed at an expense of about \$240,000.00, including the sewage and water system, were constructed for the care of this particular class; that if the new buildings were turned over to the Hospital, they would be confronted with the same difficulty we now have, of conducting two institutions a mile and a half apart, besides another farm colony they already have about three miles to the northwest; that the buildings on our old site are only about 1600 feet from the Hospital and the natural expansion of that institution must be in this direction, so that eventually there will be but little space between the Hospital and the buildings the girls now occupy, and these buildings can be converted at small expense to accommodate certain classes of the insane.

While the new site is more remote from the transportation lines than the old, this can be remedied to some extent. There is a tract of 160 acres of practically worthless scab land which belongs to the Hospital. This tract is surrounded on three sides by land belonging to the school. If we can get a right-of-way across this land for a road, it will cut off about half a mile of the distance between the new site and Medical Lake. This road would be free from any heavy grades and with a good macadam road and a motor truck, the question of the transportation of fuel and other supplies would be solved.

So, taking everything into consideration, I feel that the best interests of the State and its two institutions have been subserved by erecting the building now under construction, at the new site. I am confident that this opinion will be concurred in by any one fully

conversant with the conditions existing. Your Board, the Bureau of Inspection, and many citizens who originally opposed the removal, now agree that as a business proposition, the proper thing to do was to erect the new buildings at the new site, and this has been done.

A vast stride forward has been made in providing for the care of the feeble minded in this State, of whom there are probably not less than 1200. In less than four years an entirely new institution consisting of eleven substantial, modern, fireproof buildings have been erected, which will accommodate about 615 inmates. I have visited several of the leading feeble minded institutions in the United States, and while I have seen some that are more imposing and surrounded with beautiful parks and grounds I am satisfied that in a few years, none will excel ours in beauty, convenience, comfort and permanence. In laying out the plans, we have endeavored to anticipate the future and provide for an eventual population of 1,500, so that no part of the work will have to be torn down to make room for additions. Ample space has been left for such additions as may become necessary from time to time and for parks, playgrounds and roadways. The administration building, the kitchen, employes' and officers' dining rooms are large enough for all time to come. The inmates' dining rooms as now completed are of sufficient capacity to accommodate about 1200 inmates and can easily be added to if necessary. As will be seen by the accompanying picture, the institution has been laid out on the village plan and hereafter additional units can be added as required, without crowding or disarranging the present system. While there may be some criticism against building such a large administration and Culinary department at this time, I am fully convinced that time will **Prove** the wisdom of this measure. During twenty years of institutional work I have had the opportunity to observe the folly and waste of building only for the present and in not anticipating future require-

As nearly as I can judge at this time, the work done and materials entering into the construction have been first class and the state has received full value for its expenditure. I am advised that the buildings not be duplicated except at an advance of about \$65,000.00 above what

Several thousand dollars worth of work has been done by our inmates and employes in improvements we could otherwise not have had
through lack of funds. There has been so much to do that we have
been unable to do much grading yet and the surroundings will be disagreeable and inconvenient the coming winter and we will have hard
work to take care of the surface water. But before another season
we will be able to provide for this.

#### DEFECTIVE DELINQUENTS.

One of the problems now before us is what to do with our defective delinquents. These are in a class by themselves. For the past four years the authorities have been sending them here, because they do not know what else to do with them. The law does not allow them to be sent to the reformatory until they commit a crime. Most of the older ones are criminalistic in their tendencies and delight in plotting and trouble making. Some of the women have led immoral lives and see nothing wrong in it. Some have had affairs with immoral men, who seek to keep up the acquaintance by correspondence after the girls have been sent here and make every possible effort to secure their release. Strange as it may seem, the parents of some of these women join in these efforts and employ attorneys to aid them. Petitions have been signed by reputable citizens in some communities and sent to the Governor, asking that some of these be discharged.

Last year one of the girls ran away one evening after supper, and by previous arrangement met a man waiting close by. They went to Cheney, boarded a train for Oregon, where they were married. Afterward, upon returning to this state, the authorities arrested the woman and she was recommitted here by the court. Since then we have had to employ an outside guard, who is a deputy sheriff, with power to make arrests if necessary.

There should be a law making it a felony for any person to aid or abet an inmate of any state institution to escape or elope, and a misdemeanor for any one caught loitering around the buildings and grounds without due authority or permission. The sheriff of any county in which a state institution is located, should be required to appoint one of the regular employes of such institution, recommended by the Board of Control or superintendent, as a deputy sheriff, with power to make arrests and enforce the law when necessary, under the direction of the superintendent.

True defective delinquents cannot be reformed and psychologists and court officers recognize the futility of sending them to the reformatory for that purpose. Except while under custodial care, they are always in trouble and a menace to the community in which they reside. Many make great improvement under good surroundings and strict supervision but almost invariably relapse when turned out into the world again. We have very little trouble with those having these inherent traits when sent here while they are young. But after fifteen or sixteen years of age, habits and temperament have been formed toward an evil disposition which is difficult to control and impossible to eradicate. These are the trouble makers. In machination and intrigue some of them would puzzle a skilled detective. Nevertheless, with all their faults they are interesting and arouse our sympathy when we realize that they are not responsible for the evil that is a part of their nature.

It is an open question yet whether those of this class who are over 18 years of age should be kept here, or a separate division arranged for them at one of the reformatory institutions.

#### PRESERVATION OF GAME.

I recommend that a law be passed declaring all state land belonging to state institutions shall be game preserves and that it shall be a misdemeanor for any person to discharge or have in their possession, firearms or other weapons or contrivances for killing or taking game, on such premises or within 500 feet from the boundaries of the same or any waters on or bordering the same. There are excellent breeding grounds about here for game girds to breed, if protected, and the passage of such a law may prevent some of our inmates and employes from being killed or seriously injured by the indiscriminate shooting by numerous sportsmen who pay no attention to the "No Shooting" signs that have been posted.

#### GENERAL HEALTH.

Many of the inmates received during the rush of January and February, 1915, were extremely weak and debiliated. Two were almost in a dying condition when they arrived, the long journey in cold weather and sudden change in altitude being hard on such weak cases.

We have had epidemics of chickenpox, mumps, la grippe and whooping cough, but all so afflicted made good recovery. Have also had a number of cases of mild intestinal and stomach trouble. At the present time the general health of the inmates is excellent. We have a great many epileptics, who are treated with varying degrees of success.

Through the courtesy of Mr. Felder of the hospital laboratory 176 tests were made by the Noguchi modification of the Wasserman reaction. Also a number of blood counts made as well as tuberculin tests.

Some time in the future we hope to have a laboratory equipped and give more attention to research and clinical work.

The state dentist visited us about two months during 1915 and did the dental work required for all the inmates then present. We look for him again this winter. I presume his report will be made direct to you, hence do not include it here.

# SCHOOL DEPARTMENT.

Notwithstanding the large number of new admissions and the unsettled conditions that have prevailed, gratifying results have been obtained by the teachers in charge of the school department. Classes in kindergarten, sense training, courses in the English branches up to the sixth grade, basketry, carpentry, lace making, embroidery, sewing, rug and carpet weaving, shoe repairing, farming and gardening, drawing and painting, physical culture and music are a part of the regular curriculum. Much of the industrial work compares favorably with that done in the public schools.

Every fall about 300 of our inmates spend a day at the Interstate Fair in Spokane, which is always a great event for them.

Once a week there is dancing, music and moving pictures in the assembly hall and chapel services on Sunday morning.

Holidays are appropriately observed and at Christmas time several entertainments are provided during the week, including the Christmas trees.

Through the courtesy of Senator Hallett, who owns the beautiful bathing beach at the south end of Medical Lake, the children are permitted to bathe in the lake during the hot summer months and they certainly appreciate his kindness.

The boys have a good baseball team and give some exciting exhibitions of the national game.

#### REQUIREMENTS.

I estimate that the appropriations necessary for the next biennial period commencing April 1, 1917, and ending March 31, 1919, will be as follows:

Maintenance 670 inmates at 55 cents per day per capita	\$269,005	00
Two annexes to custodial buildings	80,000	00
Furniture	3,000	00
Material for poultry houses and pigpens	1,000	00
Dairy barn and silos	12,000	00
Cold storage equipment	3,500	00
Pipe and fittings for connecting five buildings with central heating		
plant	5,000	00
Material for north tunnel and laterals	3,000	00
Shop annex to boiler house and cold storage building	7,000	00
Material for window screens	500	00
Coal bunkers	1,500	00
Filter bed at West Medical Lake	700	00
Walks, roads and grounds	2,000	00
Apparatus for kitchen, bakery and dining rooms	1,000	00
Combination woodworking machine	350	00
Lathe	500	00
Total	\$390,055	00

Maintenance. I estimate the average daily attendance for the next biennium at 670 and the daily per capita cost at 55 cents per day. The present allowance is 57½ cents per day, but I am satisfied that we can get through on 55 cents.

Two Annexes to Custodial Buildings. Our present population is 539 and there are 70 on the waiting list—37 males and 33 females. Our capacity when the new buildings are completed will be 615. So it is evident that we will have enough to fill the buildings as soon as they are opened. The two annexes asked for will accommodate 120 more, bringing our total capacity up to 735.

Furniture. We will need some furniture for the administration building and to equip the two annexes, as well as the quarters for help.

Material for Poultry Houses and Pigpens. I think that \$1,000.00 will purchase enough material for us to get a good start with poultry and hogs. I have not had time to lay out this work yet but am very anxious to make a start at it next year.

Dairy Barn and Silos. I have visited a number of successful modern dairies and believe that we can erect a good barn and one or two silos for the above amount. We have rock enough here and can haul our own sand and gravel, hire some stone masons and carpenters and get a first class barn for that amount, sufficiently large, I hope, to hold 60 cows. with a large hay loft above.

Cold Storage Plant. The \$3,500.00 for this purpose is for a 12 or 15 ton compressor, piping, brine tank, etc. This is an absolute necessity and must be in before warm weather.

Pipe and Fittings for Connecting Five Buildings With Central Heating Plant. This is for connecting the five buildings erected two years ago with the central heating plant. At present the buildings each have a separate heating plant, which is unsatisfactory. The engineer has to walk several miles daily, going around to the various buildings to look after the heaters, which leaves him no time for repair work. These plants are also expensive to keep up.

Material for North Tunnel and Laterals. This is to carry the pipes and wires from the five buildings to the central heating plant. The buildings now being constructed have connecting tunnels and it is desired to have all the buildings thus connected. Most of the excavating will be done by our regular force and the inmates.

Shop Annex and Cold Storage Building. There is no shop for repair work and tools and no cold storage for keeping the milk and meat. I am satisfied that we can erect the two buildings for \$7,000.00 by purchasing the material and erecting them by day labor.

Material for Window Screens. We have no funds to provide the windows on the new buildings with window fly screens, which are of course very necessary before hot weather comes again.

Coal Bunkers. There are no coal bunkers or sheds for the new power plant and we are planning on building concrete bunkers in the rear of the boiler house.

Filter Bed. This is for further purifying the sewage before it is emptied into West Medical Lake. It will consist of a cement platform with side walls about 18 inches high, filled with broken rock.

Apparatus for Kitchen and Bakery. It is impossible to get along now without a bread mixer, meat cutter and other kitchen apparatus.

Combination Woodworking Machine. This machine will be a great labor saver in construction and repair work and will soon pay for itself.

Lathe. This is a lathe for tooling steel, by which repairs and new parts may be made for machinery, shafting, etc., and save sending to the city for numerous repairs.

We have no state architect and I have not had time to prepare plans and bills of material for the above improvements, nor can it be done on works of major construction under contract. When bids were received for the buildings now under construction, there was a difference of \$70,000 between the highest and lowest bidder. These figures were made by men who are experts in figuring the cost of construction, and it shows how impossible it is to make detailed estimates for construction work, particularly for a year in advance. We can only ask for what we consider is absolutely necessary, in the light of past experience, and if we have figured too low, do as we are doing now,—cut out some of the work to bring it down to the amount allowed and do it with our regular force. If we have figured too high and the cost of material and labor drops, there will be a surplus, which will revert to the treasury.

There has been some agitation regarding the building of another institution on the West Side. It is argued that about two-thirds of our inmates are from that district and the great distance makes it excessive for transportation and prevents the parents from visiting their children.

While it will unquestionably be necessary to have another institution on the West Side some day, I have opposed any move in that direction until we have a complete unit here at the present institution. Until we have 1,000 inmates we cannot have buildings enough to allow proper segregation of the various grades and it would be bad policy to start another school until we have completed this one and established it on a good working basis. It must be remembered, that in less than four years the state has built an entirely new institution to accommodate 615 inmates and it is hardly reasonable to ask that another one be built until the present one is occupied and completed according to the program that has been laid down.

It might be well at the first session of the Legislature when the demands for appropriations are not so heavy as they have been for the past few years, to provide for the selection and purchase of a site and the erection of a cheap temporary building, which could afterward be used for other purposes. A colony of working boys could later be sent from here to clear, grade and prepare the land for the future buildings. If this is ever done there should be not less than 1,000 acres secured, with ample water supply and good drainage and transportation facilities. However, from all reports I judge there will be the usual heavy demands for appropriations at the next session and consideration of this matter will have to be postponed, as public opinion has about reached a stage now where it insists upon calling a halt on appropriations for new projects and for confining the aid of the state to the completion and economical operation of existing institutions.

#### CONCLUSION.

During the past year we were honored by visits from Dr. Rogers, superintendent of the Minnesota institution for feeble-minded, Dr. Kutnewski of the South Dakota, and Dr. Fast of the Nebraska institutions. Many state, county and other officials and educators have called to see us and we have been greatly encouraged by their kind expressions of confidence and good cheer.

Contributions of money, clothing, Christmas gifts, fruit and other things that add to the comfort and happiness of our inmates, have been so numerous that it is impossible to mention the names of the donors in this report. Last Christmas one society in Spokane and one firm there, each sent a gift for every inmate here. Our amusement fund, which is derived from contributions of our friends, permitted us to purchase a fine billiard table for the boys. Prior to this period, we have been able to purchase with this fund two good Victrolas, many records, and a first-class moving picture machine, besides providing Christmas gifts for those not otherwise provided for. An electric plano was also contributed a few weeks ago. To all who have contributed to the welfare and happiness of our inmates, we desire to record our heartfelt thanks

The past biennium has certainly been a notable and busy period. It is only by the strenuous, united efforts of our inmates, employes and officers that so much has been accomplished. It is with a deep sense of gratitude that I record my appreciation of their successful efforts.

To you, gentlemen, I am indebted for your confidence, good advice and steadfast support.

Respectfully submitted.

S. C. WOODBUFF, Superintendent.

Table No. 1.

Movement of Population from October 1, 1914, to September 30, 1916.

YEAR ENDING SEPTEMBER 30, 1915	Male	Female	Total
Present October 1, 1914 Admitted October 1, 1914, to September 30, 1915	126 158 15	126 98 11	252 240 26
Total enrollment for year	294	230	524
Discharged October 1, 1914, to September 30, 1915	26 9 4	. 16 . 8	42 17 4
Total vacancies created	39 255	24 206	63 461
	294	230	524

# Movement of Population for Year Ending September 30, 1916.

YEAR ENDING SEPTEMBER 30, 1916	Male	Female	Total
Present October 1, 1915. Admitted October 1, 1915, to September 80, 1916	86	206 55 14	461 141 22
Total enrollment	349	275	624
Discharged October 1, 1915, to September 30, 1916	11	21 10 1	62 21 2
Total vacancies created		82 243	85 539
	849	275	624

# Movement of Population for the Two Years Ending September 30, 1916.

TWO YEARS ENDING SEPTEMBER 30, 1916	Male	Female	Total
Present October 1, 1914. Admitted October 1, 1914, to September 30, 1916	126	126	252
	239	148	387
	23	25	48
Total enrollment for period	888	290	687
Discharged October 1, 1914, to September 30, 1916	67	37	104
	20	18	38
	5	1	6
Total vacancies created	92	56	148
	296	243	539
	288	299	687

# Table No. 2.

# Showing Ages of Four Hundred Thirty-Five Inmates Admitted from October 1, 1914, to September 30, 1916.

	=
Under 10 years	112
10 to 15 years	160
15 to 21 years	129
21 to 50 years	
	435

# Table No. 3.

# Showing Causes Assigned by Relative or Examining Physician for Condition of Five Hundred Thirty-Nine Inmates Present September 30, 1916.

ecident						
cute poliomyelitis						
cute sickness						
lirth injury	 			 		 •
erebral hemorrhage	 • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •		 <b></b> .	• • • •	 -1
erebro spinal mening						
ongenital	 	. <b></b>		 		 ٠١ '
retinism						
eprivation	 	• • • • • • • • • • •		 . <b></b>		 .
ysatocia	 <b>.</b>	• • • • • • • • • • • • • • • • • • •		 		 .
pilepsy	 			 		 .1
ydrocephalus	 		<i></i>	 		 .1
alnutrition	 			 		
asturbation	 			 		 .
aternal shock	 			 		 
o cause given	 			 	. <b></b> .	 .1
ost typhoid	 			 	. <b></b> .	 .1
renatal influence	 			 		
philis, acquired	 			 		 .1
vohilis, congenital						
raumatism	 			 		 .1
nknown						
	 			 		 1_

Table No. 4.

Death Record for Two Years Commencing October 1, 1914, and Ending September 30, 1916.

OAUSE OF DEATH	Male	Female	Tota
Amyloid disease Asphyxia (during attack of grand mal) Bronchitis, acute Bulbar paralysis Cerebro apoplexy Endocarditis, acute Enteritis, acute Erysipelas, migratory Exhaustion from epilepsy. Status epilepticus Gastritis, acute General paresis Hydrocephalus Laryngeal paralysis, acute. Oedema of lungs (following epileptic attack) Organic disease of heart. Peritonitis, septic Pneumonia, phthisis Penumonia, phthisis Penumonia, lobar Paraplegia cerebralis spastica Tuberculosis, general	1 3 1 1 3 3 3 1 1 1	1 1 2 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	
Tuberculosis, pulmonary		1 18	3

Table No. 5.

Showing Counties from Which Four Hundred Thirty-Five Inmates
Were Admitted During the Two Years Commencing October 1,
1914, and Ending September 30, 1916.

	A	DMITTE	ED	RE	ADMITT	PED	GRAND TOTAL			
COUNTIES	Male	Female	Total	Male	<b>F</b> emale	Total	Male	Female	Tota	
Adams	1		1				1			
AsotinBenton	2	2	2	·····i		·····i	2 5	2		
Chelan	4	5	9	ī		1	5	5	10	
Clallam	1 2	1 8	2 5		2	2	1 2	1 5	:	
Columbia	<del>.</del>									
owlitz	8	1 2	4 5				8	1 2	] ;	
ouglas	1	_ ×	1				ı	Z	1 :	
ranklin	8		3	1		1	4			
arfield	1		1 2			• • • • • • • • • • • • • • • • • • • •	1 2			
rantrays Harbor	2 8	1	4	8	i	4	8	2		
sland	2	2	4	ļ <u>.</u>			2	2	Ι.	
efferson	2 76	89	2 115	Б		10	2 81	44	12	
ingitsap	5		5				5		12	
ittitas	3	7	10				8	7	10	
lickitatewis	1 6	5	1 11			• • • • • • • •	1 6	5	1	
incoln	6		6				6	<b>.</b>		
ason	1		1				1			
kanogan acific	8 1	1	8 2	! !		• • • • • • • •	8	·····i		
end Oreille		<u>.</u>						[ <u>*</u>		
ierce	28	19	42	2	6	8	25	25	50	
kagitkamania	10	8	18	1		1	11	8	19	
nohomish	16	12	28		2	2	16	14	3	
pokane	18 1	12	80 8	8	5	8	21 1	17 2	3	
tevens	i	2	8				i	2		
Vahkiakum										
Valla Walla	. 8 13	5 5	13 18	1 2	2	8	9 15	7	16	
hitman	2	5	7	í	i	2	8	6	2	
akima	11	9	20	2		2	18	9	25	
Totals	239	148	887	28	25	48	262	178	485	

Table No. 6.

Showing Counties from Which Five Hundred Thirty-Nine Inmates
Present September 30, 1916, Are From.

	COUNTIES	Male	Female	Tota
Adams		1		
	• • • • • • • • • • • • • • • • • • • •		1	
Benton	•••••	. 8	i	
~	• • • • • • • • • • • • • • • • • • • •		5	1
	• • • • • • • • • • • • • • • • • • • •		1 1	'
			3	1
	••••••		8	
	• • • • • • • • • • • • • • • • • • • •			
COWIITZ	<b></b>	6		1
			2	1
	· · · · · · · · · · · · · · · · · · ·		1	1
	•••••		2	1
	• • • • • • • • • • • • • • • • • • • •	2	1	1
	•••••••		1	١.
Frays Harbor	• • • • • • • • • • • • • • • • • • • •	8	5	1
Terwood	•••••	1	4	1
Jenerson		8	1	i .
King	••••••	81	68	14
				1
	• • • • • • • • • • • • • • • • • • • •		8	1
			1	1
			5	] 1
Lincoln	• • • • • • • • • • • • • • • • • • • •	9	4	1
			. 2	1
Okanogan	••••	4	1	1
Pacific	•••••	8	. 4	1
Pend Oreille	***************************************		.	
Pierce	***************************************	28	22	8
San Juan			.	
Skagit	•••••	1	8	1
Skamania	***************************************	1	1	.1
Spohomish		20	26	1 4
Dokane	***************************************	25	20	1 .
			3	1 7
hurston	***************************************		3	1
oh kia kum				
			8	1
			12	1 .
			9	1 3
kima		9	12	1
Min	•	``  <b>-</b>	-l	.
		296	243	1 5

1916

# Statement No. 1.

# Showing Balances on Hand First of Period, Receipts, Disbursements and Balances on Hand Last of Period, Commencing October 1, 1914, and Ending September 30, 1916.

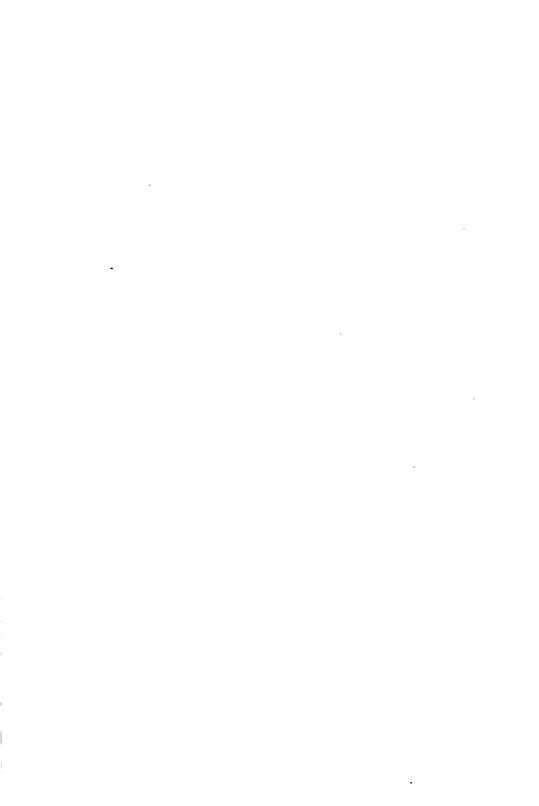
1914	INMATE FUND		
Oct. 1 1916	Balance on hand first of period	\$188 17	
Sept. 30 Sept. 30 Sept. 30	Receipts during two-year period	2,792 10	\$2,656 23 324 04
	Totals	\$2,980 27	\$2,980 27
	,		i

# AMUSEMENT FUND

1914 Oct. 1	Balance on hand first of period		
1916 Sept. 80 Sept. 30 Sept. 30	Receipts during two-year period	,	\$518 67 32 93
	Totals	\$551 60	\$551 60

### MISCELLANEOUS FUND

Sept. 30	Receipts during two-year period	\$607 00	
Sept. 30	Remitted to State Treasurer		<b>\$607 00</b>
	Totals	\$607 00	\$907 00
	Totals	\$607 00	\$60







#### STATE SOLDIERS' HOME.

To the Honorable State Board of Control, Olympia, Washington.

GENTLEMEN: I herewith submit to you the biennial report of this institution for the period ending September 30, 1916.

The first year of this biennium, viz., from October 1st, 1914, to September 30, 1915, was in charge of J.D. MacLean, M.D., an efficient and conscientious officer, under whose direction buildings were repaired and made more sanitary, with small cost to the state.

We have been unable to make extensive improvements on account of the limited funds available. We have, however, built a vegetable and fruit house of cement and wood, and the unsanitary hog pens have been removed and temporary quarters constructed.

The hospital has been kalsomined and otherwise renovated; the hospital reception room refurnished, principally from donations. The upper story of the Colony commissary building has been finished off for sleeping rooms for employes, Union Hall barracks partitioned off and other minor improvements made.

We have also cleared and stumped some eight acres of land.

All of our buildings are old, having been built from 14 to 24 years ago, but all are now in good repair, except painting, four of which will need a coat of paint outside, and the roofs treated with a fireproof roofing paint.

The buildings, however, are not adequate to accommodate the needs of this Home, and we should have one good one-story barracks to accommodate from 100 to 120 men; also an up-to-date well equipped hospital presided over by competent nurses, to both of which your attention has been called in the suggestive budget now in your hands for the coming term.

We have endeavored to make the very pleasant and attractive location and grounds now beautiful, if possible more so, by planting and cultivating a choice variety of flowers, and in other ways making it as homelike as possible.

The deportment of the members has been commendable and greatly improved since the state-wide prohibition law went into effect and and there have been very few cases of violation of the rules.

The health of the institution is excellent and the death rate very small compared with the ages of the men, who are mostly Civil War Veterans, and from the reports of the other institutions we believe we have the lowest death rate in any state Home in the United States, which may be principally accounted for by the healthful location, excellent spring water and variety of vegetables and fruits raised upon the farm, supplying the tables with nourishing and healthful foods.

Our herd of cows consists of such stock as could be purchased

cheaply, or raised without special care, but we are keeping an accurate account of each individual animal's record, so that the unprofitable ones may be replaced by purchase, or by raising and the "present boarders" be weeded out and replaced with choice dairy stock.

We raise each year from 100 to 125 pigs, which we think will compare favorably with stock raised in any other institution in this state.

Most of the work here has been performed by members, but with their advancing age more outside help will be required, and we would suggest trained nurses in the hospital, even though we have to reduce the help in some other department to accomplish this purpose. The future will naturally give us a large number of patients which we must prepare for now.

#### LIST OF DONORS.

The following parties are entitled to our thanks for gifts to the Home and valuntary services rendered:

A. Sully W. R. C	Wash.
Sheridan W. R. C	
W. R. C. ProsserProsser,	Wash.
Lawton W. R. COrting,	Wash.
Daughters of Veterans	Wash.
Mrs. E. Ricksacker	Wash.
W. R. CPuyallup,	Wash.
Mrs. J. H. WileyNorth Yakima,	Wash.
Col. Dan'l McCook W. R. CWenatchee,	Wash.
Julia Dent Grant Tent No. 3Tacoma	Wash.
Custer Post No. 6 G. A. R	Wash.
L. C. Ladd, W. R. CPuyallup,	Wash.
Mrs. Lizzie F. BellesPuyallup,	Wash.
Sedgwick Corps No. 4Spokane,	Wash.
Ellsworth Corps No. 3	Wash.

Since April, 1916, regular services at the Assembly Hall have been maintained, and also a Bible class. The following persons outside of the Home have supplied and rendered valuable assistance:

Revs. Church, Pascoe, Carter, Milligan, Wightman, March, Hutchinson, Messrs. Osgood, Ellsworth and Griswold and Mrs. Bartell, Mrs. Frances M. Haskell and Mrs. Joselyn.

The Colony will require a larger appropriation than the last one because it is growing and some worthy applicants cannot be admitted until a larger appropriation can be made. We would suggest \$45,000.00 as sufficient.

We have given you a brief summary of our needs, which we are ready at all times to supplement when called upon to do so.

ED. C. WARNER, Superintendent.

#### WASHINGTON SOLDIERS' HOME.

Gain and loss in membership from October 1, 1914 to September 30, 1916.

Total membership October 1, 1914 701	
Gain by admission and readmission 198	899
Loss by honorable discharge 369	
Loss by dishonorable discharge 1	
Loss by death	432
<del></del> ,	
Total membership September 30, 1916	467
Net loss during the two year period	234

	GAIN	LOSS		PRESE	NT. AND A	BSENT	
QUARTER ENDING	Admis- sion	Death	Honor- able Dis- charge	Dishon'r- able Dis- charge	Absent With Leave	Present	Present and Absent
December 31, 1914 March 31, 1915		7	25 87		368 872	342 326	710 698
June 30, 1915		18 8	67		847	820 294	641
September 30, 1915		12	89		256	205	561
December 81, 1915		7	62		216	808	519
March 31, 1916		ġ	86		186	810	495
June 30, 1916		5	18	1	238	249	487
September 30, 1916	16	1	35		205	262	467
Totals	198	62	360	1	2,187	2,391	4,578
Average per quarter Average present for bier		7.7	46.12		273.87	298.87 310.87	572.2

Mexican war veterans	1
Indian war veterans	16
Civil war veterans	407
Spanish American war veterans	43
•	407

## AGES OF MEMBERS ADMITTED DURING THE TWO YEARS ENDING SEPTEMBER 30, 1916.

	Year ending	Year ending	
Age	Sept. 30, 1915	Sept. 30, 1916	Total
38	1	1	2
39	1		1
40	2		2
42		2	6
43	1	••	1
44		• •	1
45		3	5
47		1	1
49		1	2
51		1	2
52		. ••	1
53		• •	1
54		• •	2
55		2	5
56		1	2 2
57		··i	2
59 60			1
61		 1	2
65		_	4
66		••	5
67		4	9
68		4	11
69		6	20
70		6	14
71		5	16
72		5	9
73	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	11	15
74		7	11
75		4	9
76	3	2	5
77	6	4	10
78	1		1
79	2	2	4
80	1	1	2
81		1	2
82		1	4
84		••	1
85		2	4
87	• • • • • • • • • • • • • • • • • • • •	1	1
	118	80	198
			200

## ADMISSION OF MEMBERS BY COUNTIES FOR THE TWO YEARS ENDING SEPTEMBER 30, 1916.

	Year ending	Year ending	
County	Sept. 30, 1915	Sept. 30, 1916	Total
Adams		1	1
Asotin	1		1
Chelan	1	• •	1
Clarke	5		5
Clallam	1		1
Cowlitz		2	2
Grant	1		1
Grays Harbor	2	3	5
Jefferson		1	1
King	23	11	34
Klickitat	1		1
Kitsap	4	1	5
Kittitas	1	1	2
Lewis	4	3	7
Lincoln	1	• •	1
Okanogan	1		1
Pacific	1	• •	1
Pierce	43	38	81
Skagit		2	2
Snohomish	3	4	7
Spokane	10	5	15
Thurston	2	2	4
Wahkiakum	_	• •	1
Walla Walla	2	1	3
Whatcom		2	6
Whitman	2		2
Yakima	4	. 3	7
	118	80	198

## NATIVITY OF MEMBERS ADMITTED DURING TWO YEARS ENDING SEPTEMBER 30, 1916.

Country	Year ending Sept. 30, 1915	Year ending Sept. 30, 1916	Total
Canada	в		6
Denmark	1		1
Germany	8	4	12
Ireland	7 .	6	13
New Brunswick		2	2
Norway	1		1
Russia	1		1
Scotland		1	1
Sweden	2	1	3
United States	91	66	157
Wales	1		1
	<del></del>		
	118	80	198

#### CONDITION OF SOLDIERS' TRUST FUND.

Balance 1st October, 1914		
	\$12,154	97
Disbursed	10,716	76
Balance September 30, 1916	\$1,438	21
DECEASED MEMBERS' FUND.		

On hand October 1, 1914	\$1,381 99
Accrued interest	142 66
On hand September 30, 1916	\$1,524 65

#### WASHINGTON SOLDIERS' COLONY.

Movement of Colony population during the biennium. Population September 30, 1914—Male, 158—Female, 15—Total 173.*

		Men	Women
Admitted		. 54	25
Discharged		. 44	10
Died		. 16	2
Gain		. 54	25
Loss		. 60	12
		6 loss	13 gain
	Men	Women	Total
September 30, 1914	158 6 loss	15 13 gain	i73
•	152	28	180
*Population September 30, 1914 sh	own as	173	
Correct population September 30,	1914	172	1
Total population September 30			

#### STATE VETERANS' HOME.

To the Honorable State Board of Control:

I herewith submit to you the Biennial Report of this Institution for the period commencing October 1, 1914, and ending September 30, 1916.

The conditions of this institution are good. I think almost universal satisfaction exists among the members. A great change for the better was experienced when the dry law went into effect last January. The health of the members generally is fairly good, considering the ages, and the most important thing that is needed is more room. The increasing number of applications, as shown later on in this report, make it very apparent that more buildings must be had in order to accommodate the seemingly inexhaustible applicants.

The liberality of the State of Washington towards the soldiers of the Civil War and their wives has been almost unbounded. The money appropriated by the last legislature for improvements has been used as much as possible for the specific purpose for which it was appropriated and to the best advantage for the comfort of the occupants, the preservation of property, and care has been taken to reduce the fixed expense of maintenance as much as possible.

The amount appropriated for maintenance, amounting to \$140,000.00, which was based on a population of five hundred at thirty-nine cents per capita, together with the United States fund of twenty-seven cents per capita for the men, will carry us through, with probably some money to turn back to the State. Notwithstanding the fact that our population has exceeded an average of over five hundred, the reduction in per capita maintenance can largely be attributed to improvements that have been made in the heating system, fuel, labor, and other saving devices brought about during the last two years.

The amount appropriated for repairs and improvements, amounting to \$21,000.00, has been used approximately as follows:

Improvements to Cemetery.—About five acres of land have been cleared and graded. Water has been brought from the main line and hydrants placed on the grounds, part of which have been leveled and seeded to clover. A new road has been graded and a new fence built around the cemetery. The total cost of improvements to cemetery amounted to \$1,200.00.

Grading.—One hundred and twenty-five (\$125.00) dollars was expended for grading around the rear of the hospital building and about five hundred yards of earth was excavated from underneath the hospital building for ventilation purposes, at a cost of about fifty cents per yard. Much damage was done to this building by not having this done when the building was constructed. No provision whatever was

made for ventilation, which caused the floors and woodwork of the foundation to decay, allowing the building to settle and causing damage to the plumbing, which required constant expense for repairs.

Oil Tank.—A new one thousand barrel, cement, oil tank has been built at a cost of about \$1,100.00, which includes the grading of the ground, valves and pipe for connections.

Remodeling Kitchen.—The main kitchen has been remodeled. A new tiling and cement floor was built and the kitchen was newly equipped throughout at a cost of about \$1,400.00. These repairs cost more than was estimated on account of the decayed condition of the floors and foundation. It is now a very complete and sanitary kitchen and is arranged with a view of labor saving and convenience.

Porch.—A new porch has been built at the Superintendent's cottage at a cost of \$140.00.

Painting.—The Washington barracks has been repainted complete, outside and inside and the roof. The outside of the two eight-room cottages have been repainted and also the roofs. The large dining room and kitchen were repainted, outside, inside and roofs. All of this was two-coat work. These buildings are now as good as new; they were built six years ago. The total cost of repainting, as above stated, amounted to \$1,450.00.

Annex.—A new annex has been built to the hospital building at a cost of \$1,675.00. The amount estimated for this building was \$2,000.00. It is a great convenience as it serves to separate the disagreeable and contagious cases, which are quite numerous among so many old people.

Engine.—A thirty (30) horsepower Enberg engine has been installed as an auxiliary in the power house at a cost of \$1,350.00. This engine not only serves as an auxiliary, but is used during the day to run the electric motors for ice plant, laundry, dishwashing machine, etc., at a much less cost for fuel than was used to run the larger engine.

Reservoir.—A new reinforced concrete reservoir has been built with a capacity of over one hundred thousand gallons at a cost of \$3,550.00, and about one and one-half acres of land purchased for \$500.00. This land contains a large spring and can be utilized any time that it may be needed by building a small concrete dam and by piping about three hundred feet to the present reservoir. The right-of-way for this pipe line is included in the purchase of land. Added to the cost of this improvement will be the inspector's salary, advertising for bids and extra work, at a total cost of \$4,250.00. This improvement will insure an abundant supply of water for all time.

*Driveway*.—A permanent driveway has been graded and graveled from the county road to the office, which cost the state approximately \$550.00.

Dock.—Three hundred and fifty (\$350.00) dollars was expended for repairing the home dock. A number of new piles was required.

Garden.—About one and one-quarter acres of garden land, adjoining the garden, have been cleared and drained and put into cultivation. This is very valuable garden land and a sea wall should be built to stop the wash from the high tides in the winter. It would increase the value of this garden land thirty per cent and be a great improvement to the state's property. A good fence will also have to be built around this garden in another year.

Orchard.—An orchard of two hundred trees has been planted on the side hill and in a few years it will produce plenty of apples to supply the institution, if properly cared for.

Adjutant's Cottage.—The old cottage at the foot of the hill, formerly used as the superintendent's residence, has been remodeled, or practically built anew, and a neat cottage has been made for the Adjutant at a cost of \$300.00. This improvement is a good investment and will add to the assets of the State.

Old Office.—The old office under the hill has been remodeled and a bath and lavatory put in. This building now accommodates seven members. The cost for this improvement amounted to \$110.00.

Laundry.—Electric motors and electric irons have been installed in the laundry at a cost of \$400.00, and the fifteen (15) horse power steam engine was taken out. This will result in a saving of fuel and will be more convenient and comfortable for the aged women who do the ironing.

Various other minor improvements have been made. The contour of the grounds makes necessary expenditures that would not be needed if the grounds were not so irregular. However small the expenditure has been for the necessary repairs or improvements as much consideration as possible has been given to permanency.

Respectfully submitted.

W. H. WISCOMBE,
Superintendent.

Table No. 1.

Showing Loss and Gain from October 1, 1914, to September 30, 1916.

			Men	Women	Total
Total membership October 1, 1914			408	189	502
GAIN— By admission and readmission			246	122	368
Totals	· · · · · · · ·		649	811	980
LOSS	Men	Women			
By honorable discharge.	122	19 18			
Loss			170 479	274	758
Total on roll September 30, 1916			76	85	161
Civil war veterans on roll September 30, 1916 Spanish-American war veterans on roll September 8			<b>468</b> 11		
Total			479		!

Table No. 2.

Showing Movement of Population October 1, 1914, to September 30, 1916.

MEN.

	GAIN	LOSS		ABSENT AND PRESENT		
QUARTER ENDING	Admis- sion	Death	Dis- charge	Absent	Present	Total Absent and Present
December 31, 1914	26 81 86	14 17 12 4 26 16 11 22	9 4 8 5 6 5 9	777 989 1041 988 116 1238 1600 128	336 334 319 352 333 330 308 361	413 417 428 445 449 453 468 479
Totals	246	122	48	894	2,663	8,547
Average for quarter	80.75	15.25	6	111.75	332.87	443.87

Table No. 3.

Showing Movement of Population October 1, 1914, to September 30, 1916.

WOMEN.

	GAIN	LO	88	ABSENT AND PRESENT						
QUARTER ENDING	Admis- sion	Death	Dis- charge	Absent	Present	Total Absent and Present				
December 31, 1914	20			. 40	150	007				
March 81, 1915		2	2	48 61	159 157	207 218				
June 30, 1915		2		75	158	233				
September 30, 1915				67	180	247				
December 31, 1915				81	180	241 261				
March 81, 1916	6	2 2 3 5 8 1	ģ	84	169	253				
June 30, 1916		3		108	151	259				
September 30, 1916	19	ĭ	2 8	91	183	274				
Totals	122	18	19	615	1,387	1,952				
Average per quarter	15.25	2.25	2.87	76.87	167.12	244				

Table No. 4.

Showing Nativity of Members Admitted During Two Years Ending Sept. 30, 1916.

#### MEN:

Countries	Number
United States	205
Canada	7
England	9
Germany	6
Norway	3
Ireland	7
Scotland	1
Switzerland	1
Wales	1
Holland	1
Denmark	2
Newfoundland	1
Nova Scotia	2
Total,	246

# Table No. 5. Showing Nativity of Members Admitted During Two Years Ending Sept. 30, 1916.

WOMEN	
Countries No	umber
United States	106
Canada	8
New Brunswick	2
Switzerland	
Germany	1
England	1
Scotland	2
Ireland	1
Total	199

Table No. 6.

Ages of Members Received Sept. 30, 1914, to Sept. 30, 1916.

CIVIL WAR VETERANS

Age		Number
63		. 1
64		2
65		
67		. 11
70		. 21
72		
73		. 19
74		. 15
75		. 10
76		20
77		6
78		8
79	• • • • • • • • • • • • • • • • • • • •	6
80		_
81		5
82	• • • • • • • • • • • • • • • • • • • •	
83	• • • • • • • • • • • • • • • • • • • •	2
84	,	
85	• • • • • • • • • • • • • • • • • • • •	5
86	• • • • • • • • • • • • • • • • • • • •	
87	• • • • • • • • • • • • • • • • • • • •	
88	• • • • • • • • • • • • • • • • • • • •	3
91	• • • • • • • • • • • • • • • • • • • •	1
93	• • • • • • • • • • • • • • • • • • • •	
Total	• • • • • • • • • • • • • • • • • • • •	237

Average age 73 years, 7 months, 9 days.

#### Table No. 6—Continued.

#### SPANISH-AMERICAN WAR VETERANS

A g	e																									3	7 14	ın	ıb	eı	•
34																														1	Ĺ
35																														1	Ĺ
36																														1	Ĺ
44																														1	Ĺ
46																														1	ί
49																														1	ί
50																														1	Ĺ
59																														1	Ĺ
63																														1	ί
									•																			_	_	_	_
			Т	ո	t	۱ م																								•	

#### Average age 46 years, 2 months

#### Table No. 7.

### Women Admitted During Two Years Ending Sept. 30, 1916.

A ge	Number
47	1
48	1
50	-
51	
52	
53	
54	
55	
58	
59	
60	• • • •
61	
62	3
63	7
64	6
65	
66	
67	
68	
69	
70	
71	
72	
73	
	1
	· · · · · •
77	
80	
82	
88	
87	1
Total	122

Average age 64 years, 8 months .

Table No. 8.

Showing Admission of Members by Countles for Two Years Ending Sept. 30, 1916.

	•	
Counties	MEN	Number
Asotin		. 2
Chehalis		. 2
Chelan		. 3
Clallam		. 5
Cowlitz		. 2
Grays Harbor		. 2
Grant		. 1
Jefferson		
King		. 76
Kitsan		. 37
		-
		-
•		
		•
Takıma		. 8
Total		. 246
AULAI		. 210

Table No. 9.

Showing Admission of Women Members by Counties for Two
Years Ending Sept. 30, 1916.

Counties	WOMEN	Number
Asotin		. 1
Chelan		. 1
Clallam		. 3
Cowlitz		. 2
Grays Harbor		. 1
Island		. 1
Jefferson		. 2
King		. 28
Kitsap		. 26
Mason		. 2
Pend Oreille		. 1
Pierce		. 22
Skagit		. 3
Snohomish		. 7
Spokane		. 13
Stevens		. 1
Thurston		. 1
Whatcom		. 4
Yakima		. 3
Total		. 122

#### MEMBERS' FUND.

Balance October 1, 1914	3,960 19	\$5,199 16 518 24
Totals	\$5,712 40	\$5,712 40
DECEASED MEMBERS' FUND.	•	
Balance October 1, 1914	\$967 10 1,997 25	
Total		\$2,964 35 653 44

#### STATE SCHOOL FOR DEAF.

State Board of Control:

GENTLEMEN: I have the honor to submit the biennial report for the School for Deaf covering the two years ending September 30, 1916.

#### ATTENDANCE.

The total number of children who have attended school during the two years has been 172.

From October 1, 1914, to September 30, 1915:

Boys		92
Girls		65
	Total 1	57

From October 1, 1915, to September 30, 1916:

Boys		33
Girls		59
	Total1	42

These figures show the actual total enrollment and not the average attendance. Every child coming to school is enrolled on arrival. Some do not stay very long but are counted in the total above.

These were divided among the various counties of the state as follows:

#### POPULATION BY COUNTIES.

From October 1, 1914, to September 30, 1916:

Adams 5	,
Asotin	1
Benton 1	
Clallam	:
Clarke	
Clarke	
Chelan	
Douglas	
Grays Harbor 12	
Grant 1	
Island 3	
Jefferson 1	
King 26	•
Kitsap 3	
Kittitas 4	i
Klickitat	L
Lewis 8	\$
Mason	
Okanogan	•
Pacific	i
Tacine	•
110100	
Daugit	
Snohomish 8	
Spokane 20	
Stevens 8	
Thurston	2
Walla Walla	ŀ
Whatcom	2
Whitman	Ĺ
Yakima 16	3
	-

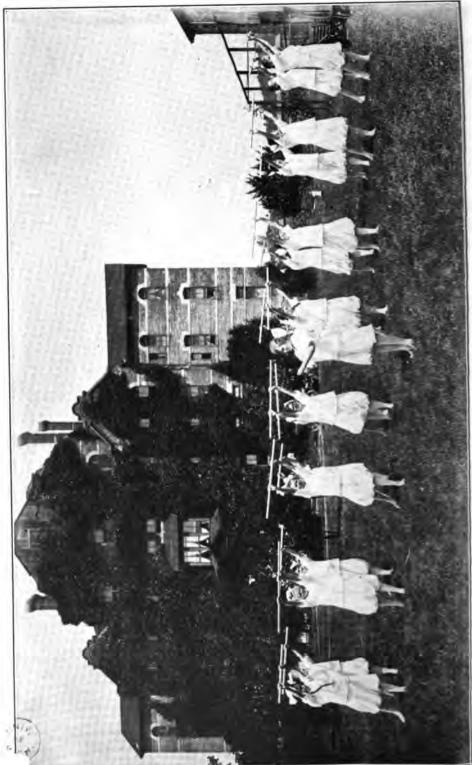
To be safe we should provide for 150 pupils for the next two years. Four years ago I reported:

"The main building is a much patched structure about twenty-four years old, poorly planned and badly built, without proper ventilation or light, and is expensive to keep up. The walls of soft brick rest directly on the ground with no attempt at water-proofing, and are consequently damp and cold. It is a perfect fire-trap and has been condemned by several architects. A modern structure to house the business of the institution, and provide quarters for the officers can be built for the sum of \$50,000.00. The only part of the old building worth saving is the wing used for dining rooms and chapel. This can be remodeled, making provision for cold storage and store rooms, and rendered fire-proof in keeping with other buildings for the sum of \$15.000.00."

In my report of two years ago, I said:

"Our present school rooms are far from adequate for that number (150) and are not properly lighted or ventilated, being on the fourth floor of the old building which has been condemned and considered unsafe and unsantary for the last ten years. This should be replaced though the present financial condition of the country will compel us to continue to use it for administration purposes for some time to





GIRLS DRILL TEAM AT STATE SCHOOL FOR DEAF.

come. But I feel that I would be neglecting my plain duty should I fail to urge the imperative need of a school building here. The enormous importance of eyesight to our deaf children makes it almost criminal to force them to work in school rooms where artificial light must be used at all times. We have three such and not one of the others is properly lighted or ventilated. A good school building, large enough to accommodate the school for years to come, can be built for \$40,000.00."

I quote these for the sake of emphasis. The need grows more imperative each year. The old building now in use has been condemned by all who know anything about it and we have asked repeatedly during the past ten years to have it replaced but have failed to get it. It seems impertinent to call your attention at this time to the fact that the state has spent less money for buildings at this school during he past twenty years than at any other institution in the state.

#### OUR METHODS.

I have found no occasion to make any marked change in our methods of instruction. We are still using the American Combined System, under which all known methods and variations are used for the attainment of an object common to all. Speech and speech reading, commonly called the "lip language," are considered very important, but mental development, the acquisition of language and general knowledge are regarded as still more important. So far as circumstances permit, such method is chosen for each pupil as seems best adapted to his needs and capacity. Our rule is that adopted by the American Instructors of the deaf in convention assembled, "any method for good results. All methods and wedded to none." We are getting intelligent speech and speech reading from about 65 per cent of our children.

At present we have 124 pupils, 41 of whom do not receive instruction in speech and lip reading and 83 who do receive it daily.

We have seven classes who receive all their instruction by the oral method. One class has three hours daily in oral work with a hearing teacher and three hours daily in written work with a deaf teacher. Our high class do their written work with a deaf teacher and have a half hour lesson daily from a hearing teacher of speech and lip reading. This is as much oral work as can be done with our present facilities.

In the spring of 1916, through the assistance of Lieutenant Taylor of the 21st U. S. Infantry, stationed at Vancouver Barracks, we started a class of boys and one of girls in the physical exercises used in the army for correcting carriage and proper walking. These exercises are known as the "setting up" exercises and "Butts' Manual." When the troops were ordered south this work was carried on by Mr. Fraser, our

steward, an ex-army man. Both classes became very proficient, and at the close of school a competition was held, in which the girls won by a score of .96 while the boys received .95. The judge was a regular army man from the garrison. The improvement in the members of the classes was so marked that I have continued the drill and Mr. Fraser is instructing all the children in school except the very youngest.

#### GRADES IN SCHOOL.

In common with most of the American schools for the deaf we have arranged our course so that each grade covers what we expect the average deaf child to cover in one year. Thus when we speak of a class in the fifth grade we refer to the work we expect from the average class during the fifth year in school. This is not the same as the fifth grade in the public schools of the state.

A series of tests have been conducted under the auspices and with the cooperation of the Efficiency Committee of the Conference of Superintendents and Principals of American Schools for the Deaf during the past two years and covering one thousand children. The conclusions reached have been summed up as follows:

- 1. The deaf child is about three years behind the hearing child in learning ability.
- 2. The deaf boy is equal in learning ability to the deaf girl, differing in this respect from the hearing boy who falls below the hearing girl.
- 3. The deaf boy approximates the hearing boy more closely than the deaf girl approximates the hearing girl in learning ability.
- 4. The congenitally deaf and the adventitiously deaf are equal in learning ability.

The first of these conclusions is of great importance to all interested in the education of the deaf. If the fact is borne in mind that the deaf child as a part of its handicap of deafness is three years behind the hearing child much unfair comparison and causeless discouragement and criticism will be spared.

#### OUR FACULTY.

The only change I have to report in our faculty is the addition of Mr. John E. Skoglund, who graduated at this school and attended Gallaudet College. Mr. Skoglund is acting as teacher and supervisor of the older boys. The other teachers are still with us and I feel that by reason of added experience and no loss of zeal we have a stronger corps than ever before. The salaries paid in our special branch of the profession are increasing all over the United States and I have asked for some increase in my estimate for the coming biennium.

#### HEALTH.

During this period we have had more sickness than usual, but fortunately have had only one death, although much school time has been lost.

On May 29, 1915, John Piorkoski was killed while walking on the railroad track about two miles from the school.

In the fall of 1915 we had 45 cases of tonsilitis. Finding the disease had become epidemic, we fumigated the buildings and were able to check it absolutely.

In January, 1916, when our section was visited by the extremely cold weather, we had 98 cases of la grippe. These two epidemics interfered seriously with the school work in all departments, and added materially to the cost for the year.

#### DEPARTMENT OF INDUSTRY.

I consider the industrial department of our school equal in importance to the literary. The handicap of deafness makes it difficult, if not impossible, for our graduates to secure jobs unless they have acquired a start while at school.

It is our aim to teach each child the rudiments of some trade and such habits of industry as will enable him to support himself after graduation. So far, we are able to say with a good deal of pride, that not one of our graduates has ever become a charge on the public, either as an inmate of a poor house or a jail. While our graduates do not always follow the trade taught at the school, still they have learned to work while here and most of them become taxpayers very soon after leaving school.

Both boys and girls are taught to make up beds, sweep and take care of rooms. The children do all the work in their dormitory buildings, under competent supervision.

We have regular classes in cooking, sewing, printing, woodwork, leather work and laundry work. Competent instructors in these branches being employed.

The modern printing office is incomplete without a linotype machine. Deaf men make fine operators of these machines. I recommend the purchase of one for our office as our boys will then be able to get positions at good pay immediately on leaving school. I have included a Model Five Mergenthaler to cost \$2,500.00 in my estimate for the budget.

Our class in woodwork needed larger quarters and we purchased the materials and the class built an addition to the industrial building of reinforced concrete 20x40 feet, doing all the work under the instruction of their teacher. The young men turned out from this class have no difficulty in earning their way.

The leather work done includes all kinds of repairs to shoes and harness. This class keeps the shoes of this school and the School for

the Blind in repair as part of their class work. This is considered a good trade for the deaf as it does not require a large investment to begin. For a few dollars the deaf boy can start a business at home and earn his living.

#### COSTS.

The actual per capita cost of this school for the biennium has been .824 per day or \$300.76 per year. This is somewhat in excess of our estimate, but the increased cost of practically everything is the explanation.

We have allowed for this and are asking an allowance of 95 cents per day or \$346.75 per year for 150 children. The day schools for the deaf in the different cities of the state are caring for so many of the children who would come to us that I feel safe in asking you to provide for only 150.

We are still holding the cost of this school well below the average of the similar schools throughout the United States and especially is this true of the Western States. In this connection I feel justified in calling attention to the fact that our graduates compare favorably with those from all other schools, as represented in Gallaudet College, the National college for the deaf at Washington, D. C. This college is supported by the United States government and patronized by all the states. Our representatives stand near the top in all the activities of the college.

#### IMPROVÉMENTS NEEDED.

We need a new school building. One that is planned for a school house and is properly lighted and ventilated, and which can be closed when school is out and not used for anything else. Such a building to meet our needs for many years can be built for the sum of \$40,000.00.

The present main building has been condemned as unfit for use, unsafe and unsanitary. It should be replaced. A suitable building can can be erected for \$50,000.00.

The engine and pump rooms are very much in need of remodelling. Both rooms are crowded and unsafe. The sum of \$6,000.00 is needed here.

We are now using an old frame barn as a stable and garage. It is unsightly and unsafe and should be replaced by a brick barn which can be built for \$3,000.00.

I must again increase my estimate for repairs on this old building. I consider \$5,000.00 as little as we can get along with if we must use these buildings another two years.

For about eight years the institution has been using an automobile owned by the superintendent. Other institutions have been supplied by the state with one or more machines as needed. I see no reason for making an exception of this school and I have included in my estimate the price of such a machine as I have supplied.

#### NEEDS FOR COMING TWO YEARS.

For maintenance of 150 pupils at .95 per day or		
\$346.75 per year	\$104,025	00
For repairs and improvements	5,000	00
Manual training supplies	2,000	00
Library	300	00
Expenses of pupils attending Gallaudet College	2,000	00
School house	40,000	00
Administration building	50,000	00
Remodel and fireproof chapel and dining room	5,000	00
Cold storage plant	3,000	00
Store room	1.000	00
Engine and pump room	6,000	00
Brick barn and garage	3,000	00
Replace automobile now furnished by superintend-		
ent	1,000	00
Install Linotype in printing office	2,500	00
Grand total	\$224,825	00

In closing I desire to express my thanks to your Honorable Board for kindness and the friendly advice which I have received from you; and to the teachers, officers and employes for the hearty support and loyal cooperation which I have ever received from them and without which no success would have been possible.

Respectfully submitted.

THOS. P. CLARKE,

Superintendent.

#### STATE SCHOOL FOR THE BLIND.

To the State Board of Control:

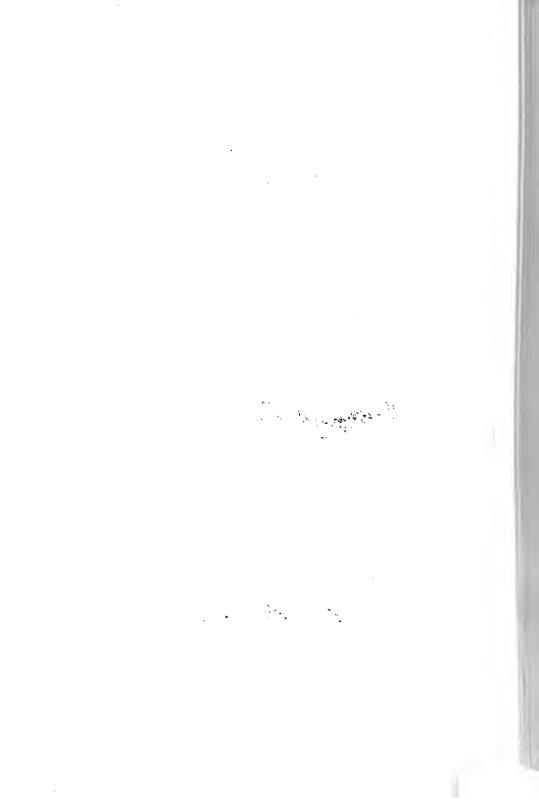
GENTLEMEN: I have the honor of submitting for your consideration, the report of the State School for Blind at Vancouver, Washington, for the fourth biennial period, beginning October 1, 1914, and ending September 30, 1916.

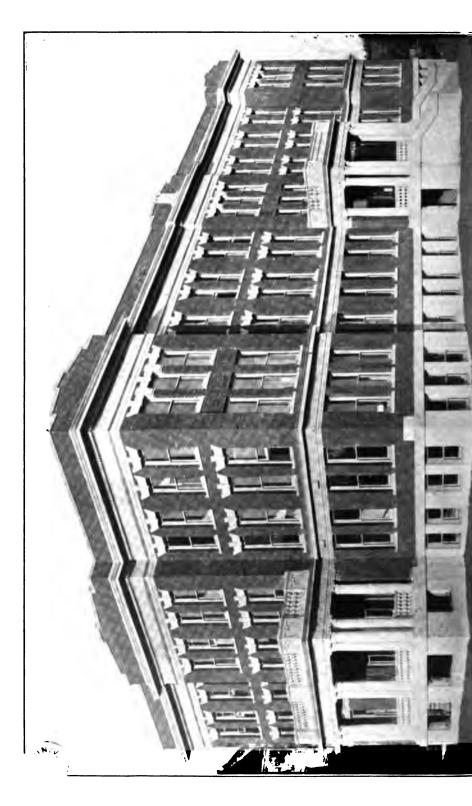
History of the School.—Following the lead of many other states, the legislature of Washington established in February, 1886, a School for Defective Youth, including the deaf, blind and feeble-minded. As the attendance increased the groups were segregated, and in 1906 the blind children were removed to a separate building. Although under joint management with the deaf, they were in all respects a separate school. Legal separation was effected by the legislature of 1913, and, in the summer of that year, W. B. Hall was appointed first superintendent. He held this position until his death, which occurred October 20, 1915. The attendance in the school has steadily increased, until the last year of this biennial period it reached sixty-three. The legislature of 1915 appropriated \$800.00 for the establishment of a

summer school for the adults. This amount has been expended during the biennium in maintaining a nine weeks' term, during the vacation period of the regular school. The fact that this short term has been eagerly attended by twenty-four different adults, several of whom are going out this year to engage in some self-supporting work, proves that this summer school is answering a positive need in our state. If made a regular part of the school program for future years, it will be a great factor in aiding the heavily handicapped man to re-adjust his life to new conditions because of blindness after maturity.

Health of Pupils: We are glad to be able to report that the general health of the pupils in the school has been excellent. have been no deaths and no serious sickness. A resident doctor is in charge of all cases requiring special attention, and the utmost care is exercised, at all times, by those in charge of the children to prevent colds and their attendant results. During the past year there has been a careful examination of all pupils relative to the condition of blood and sight. This work was done, under the direction of the Board of Control, by specialists who have carefully prepared data for the records of the school, and even offered to carry out their own recommendations free of charge, should there be any pupils who could not afford the treatment suggested. Many of the pupils of the school are under the care of specialists at home, and do not need to avail themselves of this offer, but for the needy ones, who, for various reasons, are not so fortunate, it is a great boon. We are hoping that the joy of restored sight may be the portion of some of our children as a result of this movement. Closely allied to this subject of restoration of sight is one that is receiving much attention throughout the The National Comentire country, i. e., the prevention of blindness. mittee for Prevention of Blindness, with headquarters in New York, is constantly sending out valuable matter relative to this subject. It is very gratifying to be able to report that the four states, Washington, North Dakota, Wyoming and Nebraska head the list in which there is the lowest percentage of blindness per one hundred thousand population. Our record is less than forty to the one hundred thousand. The highest is ninety or over. While this is a splendid showing, yet the following from the annual report of the Committee for Prevention of Blindness clearly shows that we are not in a position to congratulate ourselves until there is not one needlessly blind child among us.

"It is estimated that fifty per cent of all blindness is preventable. To many, this may seem too high an estimate—that one-half of all the blind people in this country need not have been blind. But it has long been known to the medical profession, and to a comparatively few others among the lay public, that more than a quarter of the pupils in the schools for the blind are sightless because their eyes were not properly treated during the first few days of life; that other children become totally or partially blind from trachoma and other eye infections, or after attacks of such infectious diseases as measles, scarlet fever, etc.; that industrial accidents cause the needless loss of many eyes; that drinking wood alcohol or inhaling its fumes in close





places causes both blindness and death; that inadequate lighting is responsible for much visual disturbance; and that eyestrain is a serious factor in general nervous breakdowns."

To the end that the people of Washington may be informed upon this tremendously important subject, I wish to suggest that a small fund be made available, whereby the school may carry on a campaign of education by means of lantern slides, exhibits, and literature; all of which are obtainable from the National Committee for Prevention of Blindness, New York City.

Improvements.—It is gratifying to be able to report many improvements during the biennium, chief of which is the new administration building, costing \$75,000.00. This building is a fireproof structure and is ample to accommodate the pupils in classroom work for years to come. The basement contains the plunge, gymnasium, dressing rooms and manual art rooms. The first floor is devoted to administration purposes, dining rooms, and rooms for superintendent and Board of Control. The school rooms, auditorium, library, piano-practice rooms occupy the entire second floor. The third floor provides quarters for the teachers and other employes. The roof garden commands a view of the beautiful Columbia river scenery, with Mt. Hood in the distance. The building is beautiful and commodious, and compares favorably with those in much older states. The library has been enlarged by several hundred new books during the biennium, thus affording a means of information, otherwise denied a blind child, unless he can command the time of some friend to read to him. In the music department, we have purchased two new pianos, and have carried out a plan of pupil-teaching, under the careful supervision of the head of the department. We feel that this plan has been helpful in many ways. Miss Blanche Ranning of Seattle, and Miss Cecile Mitchell of Walla Walla, both advanced students in the musical department of our school, have given very satisfactory service as student-teachers, and I am glad to give them this public mention, not only because their work deserves it, because it was a labor of love on their part. Such generous, loving service for others is the finest fruitage of education. The girl's industrial department has received special attention, and the work in basketry, sewing and crocheting is evidence of the development of excellence in this very important part of a blind girl's training. In the tuning department, we have on display a piano which has been rebuilt by two young men, one of whom, this fall, receives his certificate of tuning from our department. We have secured many pianos in Vancouver for him to tune during his residence in the school, and feel that he is a thoroughly qualified tuner. The addition of an extra piano for tuning has greatly aided in the efficiency of the department from which this young man graduates. Gradually the grade of brooms made in the shop is improving. We have made seventy-five dozen brooms since we opened the shop two years ago. No extra time outside of regular class-instruction periods is given in this department. As the attendance increases, and conditions allow, we would like to see every boy accorded the same opportunity as that afforded in some other states, i. e., given a fixed rate per dozen for all brooms made outside of regular class periods; this sum to remain in the school until his closing year, and then to be applied by approval of the superintendent, on an outfit for work. The reason for this being that the most difficult part of a blind man's problem in life is to secure the confidence of the seeing public that he can do anything at all. This fund bridges the gap between the opening and the successful operation of his little venture.

Teachers.—There have been no changes in the teaching force during the biennial period. This is most fortunate for the school, when we consider the ability, the training and the temperament of those employed. In nearly all our city schools teachers are paid a twelve-month salary, and the teachers of a special school should be no exception. I recommend therefore that our teachers be put on a ten-months' basis, looking to this end. Because of limited teaching force, the girls' industrial work has been carried on by several persons. Considering the press of other duties, and the limited time, the work is of a high order. However, with our increased attendance we should at once provide equipment which would enable us to add to our girls' industrial department, domestic science, ironing and weaving, and secure the services of a trained worker in all these arts. I think \$500.00 would adequately equip the vacant rooms in the basement for this use.

Social Life.—Unless constant care is taken, the tendency in an institution is for routine, even in the hours for relaxation. During the biennium much thought has been given to provide such diversions as tend to develop a love for the very best and highest pleasures. All the institution household have given themselves unreservedly to this playwork, and I feel that in a large measure the splendid spirit of the school is due to the quality of our social life. One very popular evening each month is when we entertain, as guests of honor, all who have had birthdays during the month.

Our Exhibits.—During the state fairs held at Spokane and North Yakima in the fall of 1915, our school was represented by three pupils and the matron. The demonstrations were held at intervals from ten in the morning to four in the afternoon, and a great many people witnessed the work, and thus became familiar with the scope and purpose of the school. This most excellent way of advertising a school, and its work, is always productive of good results. In fact the only way, successfully, to attract the interest of the public is by a live exhibit or moving pictures.

Policy of the School.—For eight years I was associated with my husband, the late W. B. Hall, in the Kansas School, and have had the privilege of visiting many of the best schools of the United States, so I feel sure that the policy of this institution is in line with the most advanced methods used in similar schools in this country. The train-

ng of the blind presents many difficulties, but that we, who are so near to the work may be able to better perform our tasks and more fully declop the children who come to us for guidance, we earnestly desire our continued cooperation and cordial support to the end that the ew educational ideal may prevail; namely, that every man has a efinite work to do, and that it is the aim of education to aid him to not his task, fit him for it, and stimulate him to do it gladly.

#### NEEDS OF THE SCHOOL.

Maintenance.—At present there are sixty-three pupils in the school. is not unlikely that the attendance may reach eighty during the ennium. If the average attendance should be eighty, we could mainin the school for eighty-five cents per pupil a day for 365 days in a ar. This would make the appropriation approximately \$50,000.00.

Additional Land.—As was stated in the last biennial report, additional land is the primary need of this school, if we are to plan for largement and efficiency. The present acreage of five and one-quarter res is entirely inadequate to properly care for the present enrollent, sixty-three. The wood used during the winter occupies much of e space needed for playgrounds, and there is not sufficient room to an for a garden, or girls' playground, both of which are real needs developing a school such as this. The boys' cottage is within twenty-tiet of an adjoining lot in which are kept horses, cows, pigs and ickens; hence, if for no other than purely sanitary reasons, additional acreage should be procured to correct the present deplorable addition. I think an appropriation of \$10,000.00 would cover this example the state of the present deplorable addition.

Dormitories.—The cottage for boys, built five years ago was signed to accommodate twenty-eight people. Last term we were comlled to house forty-one in it. Under such conditions satisfactory relts are impossible. Many new pupils are seeking admission. I erefore recommend that \$28,000.00 be appropriated with which to ect and furnish a fireproof cottage, in keeping with the other buildess on the grounds.

Kitchen.—The administration building just completed was degreed to conform as nearly as possible to models of proven desirability other states. The kitchen was purposely omitted from the building us eliminating all food smells from school rooms. The old kitchen, nich is located in the old building, 150 feet from the children's dining om, is being used until provision can be made for a more convenient e. The kitchen building should include rooms for storage, refrigeraon, and overhead quarters for cooks and maids. The approximate est of this building, with equipment, would be \$18,000.00.

Pipe Organ.—It is easy to understand that to the blind the world sound is one of great profit and pleasure. In view of this fact I

recommend that an appropriation be made for a pipe organ to be placed in the auditorium of the new administration building. This would cost approximately \$2,000.00. It may be the means of giving to the world a David Duffle Wood. (See footnote.)

Note: David Duffle Wood was a little blind boy of poor parentage, who, at five years of age, entered the school for the blind of an eastern state, and ultimately became one of America's greatest organists. He was held at a high salary in a Philadelphia church for many years, and was preeminent as an interpreter of the works of the masters.

Swimming Pool.—Blindness is nearly always accompanied by a defective physical condition. For this reason it is very important that a school for the blind be equipped with every device for the development of a strong body. Swimming is one of the very best exercises for a blind child, as it develops the whole body and is taken in an element which makes a tremendous appeal to the sensitive touch of the sightless. In the basement of the administration building is a fine plunge all "roughed in." It would cost approximately \$4,000.00 to finish it, and when completed the Washington school would be in a class with the best in the country.

Broom Shop.—For the safety of the entire plant it is important that the old firetrap which has served for an administration building for many years be removed. When this is done it will take with it the quarters now occupied by the broom shop. Broom material is inflammable and should be placed in a separate building apart from the others. This shop building should include, aside from the broom shop, the tuning department, which for obvious reasons it is necessary to have away from the school building, rooms for sloyd, and knot-tying, also storage rooms for supplies. It could be built at a cost of \$18,000.00

Vacuum Cleaner.—A vacuum clearer should be installed in the new building. The piping is all in, and thus the initial cost is much reduced. Five hundred dollars would accomplish this, and during the coming biennium it would pay for itself by saving an additional maid.

Field Agent.—There is one way in which a blind man may render a splendid service to his state. This is in a position known in other states as a field agent. Just as our public schools have their school visitors; our big department stores their social workers; our hospitals their followup agents; so the right kind of a blind graduate from our school employed at a regular salary could be of incalculable value to the blind of this state. His work would be to visit parents, making suggestions and explanations; to follow up discouraged pupils and encourage them; to find the young blind and report them to the superintendent, and to locate the adult blind and give them the larger outlook of a trained worker. Under the supervision of such an agent, the school might become a distributing center for material for the blind worker who has been trained by the state, but, because of inability to procure material

cept at exorbitant rates, is not able to accomplish much in the way self support. The enlargement of this plan includes the home teacher, no is always a blind person, preferably a woman, who goes into the ome, and there teaches the helpless one that life is not necessarily uses because sight in gone. In view of the possibilities of the field ency work, and the benefits to be derived from it, I recommend that ovision be made for a field agent, to work under the direction of the perintendent of the School for the Blind.

Library and Musical Instruments.—By reading, the blind child acires nearly all his knowledge, hence it is very necessary to have at s disposal a well selected library of embossed books of literature, story and fiction. Facility in reading is acquired only by the reading many books. To induce the child to acquire this facility he must ve attractive and suitable books to stimulate his interest. When we asider that a copy of David Copperfield costs, in print, ninety cents, ile in Braille print, it costs \$21.00, we begin to realize that a library the blind requires an outlay of considerable money, to secure even a all collection of books. All the children who enter the school are ven instruction for a period of time in instrumental music. Where ste and talent warrant it, especial attention is given to develop this, a blind child, supreme gift. We have now six pianos, one of which always in use for the teacher hearing lessons. We shall need several w pianos soon. Fifteen hundred dollars should provide moderately books and musical instruments for the next biennium.

Repairs and Improvements. A well graded yard is a great necesy for blind children to play upon. Their natural hesitancy is much gumented if they feel that there is danger of stumbling. Our yard is need of considerable filling in, so that walks may be permanently d for the guidance of the children about the grounds. There should so be a retaining wall to support the terrace at the back of the new ilding. These improvements are greatly needed to provide for the fety of the children, and to induce them to spontaneous play. I ink \$1,000.00 would cover these expenditures.

Higher Education. In June, 1916, we graduated a class of six ung people from our grammar school department. These young lks are planning to enter the Vancouver High School and contue their studies. Our teachers at the school will read their lessons them, and in every way encourage them to persist until graduation. is the acknowledged right of every child in America to have an portunity for an education. The blind child is more restricted than by other for he cannot secure books printed in the subjects he pursues college, and must depend upon the kindness of someone to read to m. I therefore recommend that an annual appropriation of \$300.00 or pupil be made for any blind graduate of an accredited high school Washington, who wishes to take a college course. This sum will but raish him with a pair of eyes.

Boiler.—With the addition of the new building, our boiler is to taxed to its capacity much of the time. This is not wise, except is brief periods. We should have an additional boiler, which will necessate an expenditure of \$2,500.00.

Acknowledgements.—To His Excelency, the Governor, for his gracus presence and splendid oration at the laying of the cornerstone our new building; to the members of the State Board of Control of their cordial support and unfailing kindness at all times; to the materiends throughout the state who have spoken and written words encouragement; to the people of Vancouver, who have so often give of their time to help our children enjoy many pleasures outside of the school; to the loyal employes who by faithful service have made possible the degree of success attained, and to the dear children of the school, who by obedience and earnest effort have made the work a journal of the larger life—to whom I owe anything that I have accomplished in this biennium—I wish to express grateful thanks.

Respectfully submitted,

SADIE E. HALL, Superintendent.

#### WASHINGTON STATE PENITENTIARY

REPORT OF THE SUPERINTENDENT (WARDEN).

Walla Walla, Wash., September 30, 1916.

To the Honorable The State Board of Control.

GENTLEMEN: I have the honor of submitting this, the biennial report of the Washington State Prison for the period ending September 30th, 1916. Many problems of minor detail pertaining to the conduct of this institution have been dealt with by your board during the pass biennial period that will not be referred to in this report for lack of space.

My administration as superintendent began April 16th, 1913, a which time the population in the prison was 904; at this date we have 662 actually confined, and in addition, still under our supervision aparole and conditional pardon subjects, 133. The prison board for the purposes of study or in an experimental way, has for the past year been extending the parole period for a longer time before granting finar release than was formerly the practice. This accounts for the larger number shown upon parole than was given in the last biennial report of 1914. It is the hope of the board that the retaining of the discharged men for a longer period under the restraint of parole supervision will be beneficial, in at least very many cases, by more firmly grounding

hem in self-control and consequent improved citizenship. The reeased man, in nearly every case feels that his parole conditions are a landicap to his efforts to re-instate himself, and in some cases this, in measure, is true, but in many cases this supervision is the saving actor. Whenever special cases seem to justify an earlier release action, the prison board is disposed to recommend same to the governor. In his work, like everything else, obtaining the best results, i. e., the larger ercentage returned to society and saved from becoming recidivists, epends upon the tact and ability of the parole officer who has the immediate supervision of discharged prisoners. His adaptability to the work is everything, for it is not an easy, but a vexatious problem.

Institutional Problems.—Our important institutional problems are hose that cannot be solved without legislative action. In my biennial eport covering the period ending September 30, 1914, shown on page 39 of the Seventh Biennial Report of the State Board of Control, under opics "Profitable Industries" and "Jute Mill", together with a supplenental report I made to your Board covering a personal investigation f the industrial activities of other state penitentiaries visited while nroute to the American Prison Congress meeting held in St. Paul, finnesota, in October, 1914, I detailed to some extent what our sister tates are doing in an endeavor to afford employment to their prison opulation, that will be jointly profitable to the prisoner and the state. n these reports referred to, I have covered the subject matter quite s fully as I could do herein, and hence make reference to them, without epeating the same in this report. However, insomuch as the emerency for action remains equally as pressing at this time as it did two ears ago. I desire to renew suggestions made in these reports, that a ompetent efficiency engineer or commission be authorized by the legisature to make a survey and report, covering what line of industrial proedure can be best inaugurated at this institution, to render it selfsustaining or better, and at the same time furnish a means whereby he inmates can earn some money, that will provide for their temporary necessities, when discharged, or that can possibly be used during their confinement, for the benefit of their dependent families or relatives. This is being done by other states in such a pronounced manner that heir penal institutions are no longer an expense to the state, but a ource of profit to all concerned. Why not Washington? The legislature s the only authority that can establish a business policy for the penientiary.

I desire to renew the representations made in my former report in detail as found on pages 136 and 137, Biennial Report of State Board of Control, year 1914, covering the conditions and changes needed, under topics noted as "Cell Wings," "Yard Walls," "Women's Department" "Sewage." Since my last biennial report our institutional water system has been supplemented by a physical connection of a 4-inch steel riveted pipe with the Walla Walla city gravity water supply, which materially reduces our fire risk and further secures us in the event

of accidents to our pumping plant. This expense, amounting to \$680.00, was paid for out of the appropriation for repairs and improvements.

Farm.—Each succeeding year in the conduct of the prison confirms the feasibility and importance of increasing the institutional farm activities, gardening, dairying, stockraising, orcharding and general farming, to produce subsistence for inmates and feed for the stock; all offer the very best kind of employment for the prisoners, both to those who are already experienced and others who profit by being taught this work, to aid them when they are discharged.

It seems very unbusinesslike for the state to continue purchasing food products when it can produce them not only at first cost, but at the same time confer a benefit upon their charges, by affording them an opportunity to work and learn, both advantages that must be obvious to all. With about 140 acres useable land, we are now attempting to produce our requirements for garden products, maintain a dairy of 70 cows and raise 700 head of hogs, etc., which means that much of our supplies must be purchased.

We need more garden land, more orchard and fruit land and other land upon which we can raise grain for flour and feed for more stock than we now have. The institution should maintain a dairy at least sufficiently large that the annual culling of the herd would supply the institution with its beef and its dairy products; if in excess of prison demands, could be supplied to those state institutions not capable of producing their own supply. At this time such additional land contiguous to the institution can be obtained, which perhaps later could not be had equally available and perhaps not at so favorable a valuation. Should your board be advised that the legislature would give consideration to this question, I would be pleased to submit in detail, for their investigation, plans covering suggestions of desirable and possible acquisitions and plan of purchase without an immediate appropriation therefor.

In other portions of this report are found the respective reports of Mr. F. H. Butcher, secretary of the prison board, and Elder T. J. Cannon, as chaplain, which cover in detail, practically the daily workings of the prison and render it unnecessary for me to repeat herein.

Discipline.—The prison discipline during the past two years has been maintained in a manner alike satisfactory to the management and acceptable to at least a large portion of the prison body, who recognize that a reasonable discipline is an essential in prison life.

Educational Work.—The educational work of the institution has been continued along the same lines as detailed in the last biennial report. I feel that this work can be strongly supplemented, and a very considerable amount of permanent good accrue in the matter of rehabilitation of the individuals committed here, if the legislative appropriation made for the coming biennium will permit your board to add to our official working force a student of human kind, experienced

ways of the world and its people, who would in effect psychologically study the men, advise, counsel, direct their reading and thoughts and urge a reformed manner of life, when they are discharged to resume citizenship. Personal work in an institution of this kind is invaluable as productive of permanent results. The superintendent does not have the time for this work, even if capable.

Parole Officer.—I desire to refer in an appreciable way, to the very promising manner in which Mr. B. H. German, the recently appointed parole officer for this institution, is organizing and entering upon his duties. The parole officer's work contributes so materially to substantial results in the permanent restoration of discharged men, by wise counsel, aid and encouragement, during the parole period, that it is a potential factor in the success of any prison administration.

I further desire to express appreciation of assistance rendered by many of our citizens who are laborers in social and reform work throughout the state, as well as the lecturers and entertainers who have brought their messages of cheer and wholesome counsel. A group of Christian Science students have faithfully conducted their class work weekly, throughout the two years, with many evidences of much good. The Theosophical society has supplied many capable, strong lecturers, and supplied much reading matter. The Catholic fathers of Walla Walla have regularly administered to those of that faith, and their influence has been productive of improved men and prison conditions. I desire to especially acknowledge the assistance rendered to our parole department in the help and care extended to many paroled men, by Mrs. Maud Ballington Booth's western home for her Volunteer Prison League members, and other men sent to her from this and other institutions. Mrs. Booth's Portland manager, Mrs. Major Jessie F. Starks, has at her own expense brought her messages monthly to the institution, to the appreciation and profit of a large number of inmates.

In conclusion I desire to accord my appreciation of the assistance rendered me in my work by the governor, Hon. Ernest Lister, and to the members of the Board of Control for their uniform courtesy and support, also to the members of my official staff for their support in conducting the business and other institutional affairs.

Respectfully submitted,
(Signed) Henry Drum,
Superintendent.

## REPORT OF STATE PRISON BOARD.

WALLA WALLA, WN., September 30, 1916.

Hon, Henry Drum, Chairman, State Prison Board.

DEAR SIE: In compliance with law, I have the honor to submit herewith the Fifth Biennial Report of the State Prison Board.

The Board consists of the following: Honorable Frank C. Morse, Honorable T. E. Skaggs, Honorable W. H. Cochran and the Superintendent of the Penitentiary, Honorable Henry Drum, Chairman, Fred H. Butcher is Secretary.

Early during this biennial period, Honorable H. W. Ross was succeeded by Honorable T. E. Skaggs and Honorable H. T. Jones, who had been a member since organization, was succeeded by Honorable W. H. Cochran. Mr. B. H. German has been appointed parole officer to succeed Mr. Ben Ludlow who resigned August 15th, 1916. This officer's duties consist of securing employment for those on parole, visiting them from time to time, adjusting their difficulties and stimulating their desires for restoration to good citizenship.

At the December, 1914, meeting, the Board paroled inmates who had been previously convicted, this being a departure from the prior custom of considering only first offenders eligible for such consideration. This procedure has been highly successful as proved by the percentage of violations which has not been increased in consequence.

Another beneficial change, first put in practice May, 1915, and since followed, is that those recommended for service at the rock quarries have at the time of their selection, had the time fixed when they would receive final release in the event of satisfactory service and good conduct. In computing the date of final release ten days time per month is deducted from sentence in consideration of arduous work. Much dissatisfaction has been eliminated by this salutary procedure, the output of the quarries indicates marked increase and a material lessening of the number of escapes has resulted.

Formerly six months reporting upon parole was generally regarded as adequate to insure the recommendation for final release; the Board now believes that in many cases a year is a better standard as further guarantee toward rehabilitation.

The Board authorized the superintendent of the penitentiary to issue permits in worthy parole cases to enable them to pursue legitimate avocations in other states as the needs required; in this way formalities requiring time have been abandoned and quick action resulted for the benefit of the paroled.

The Prison Board has flexibly operated its rules in cases in which the rigid enforcement of them would result in hardship.

Respectfully submitted,
(Signed) FRED H. BUTCHER,
Secretary, State Prison Board.

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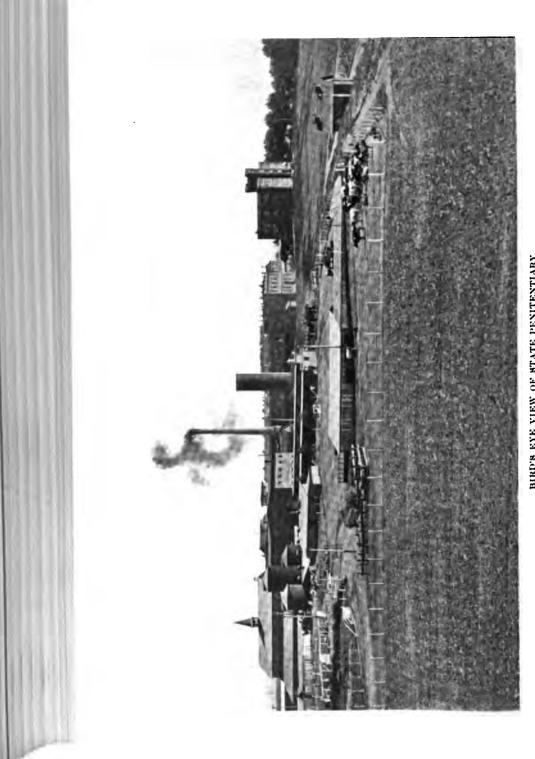
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## REPORT OF CHAPLAIN.

WALLA WALLA, Wn., September 30, 1916.

on. State Board of Control, Olympia. Washington.

Sires: I herewith submit my report for the year beginning October 1st, 1915, and ending September 30th, 1916.

Since I assumed the duties of chaplain, I have conducted services the auditorium every Sunday morning. Musical selections rendered to the W. S. P. orchestra and band, as well as by some of the very est local talent I could secure for this purpose, have contributed their lare toward the general edification of the inmate body. The religious tercises being always attended, and whenever possible, have been allowed at the close of the service by a display of motion pictures covered from local playhouses.

I am at present engaged in an attempt at reorganizing into an active body, devoted to christian-fellowship and practices, all inmates he have previously pledged themselves as members of the V. P. L. Volunteer Prison League) an intramural organization founded some are ago by Mrs. Maud B. Booth of the Volunteers of America, headed Ballington Booth as president, and Major Jessie F. Starks of Portand. Oregon, as local representative. Her monthly visits to this intuition are looked forward to by many inmates with eager anticipation. Her kind ministrations and practical christian endeavors to tas a first friend to men released on conditional pardons or paroles we endeared her and her work to inmates generally.

During the past year the local branch of the Salvation Army has Various times conducted meetings in the Auditorium.

Christian Science services formerly held in the library are now ing conducted in the auditorium by members of that body. Inseed attendance on the part of inmates requiring a larger meeting

At different times, services have been held by Catholic priests for benefit of inmates belonging to that faith.

During the past year the library has been reorganized, renovated enlarged, additional shelf space having been secured, thus createrom for some 1,500 new and second-hand volumes purchased and nated during that time. All books have been carefully examined, lassified and arranged according to subject matter, title and author. Printed catalogue of one hundred and four pages has been issued delivered to every cell, and to the various departments of the titution, thus making the contents of the library known to all intes. A systematic and thorough distribution of books marks the torder of the day. The former weekly "hit and miss system of bution and selection of books" has been displaced by an up-to-card system,—enabling inmates to make their own selections from

the catalogue, and order books desired upon their cards. I am please to note that the demand for books other than fiction is on the increase but regret to observe that the supply as to kind and variety of book requested is totally inadequate to meet the demands,—especiall books of a technical nature wherewith the library is not supplied. For instance, books on present day methods of scientific farming and agriculture, horticulture and arboriculture, poultry and stock raising, a well as text-books on civil, mechanical and electrical engineering ar constantly in demand. I most urgently recommend that somethin be done in the near future to acquire books of that nature. I full realize, however, that the \$500.00 at present allowed biennially for the purchase of books is totally inadequate to meet the growing deman made upon the library, and that the acquisition of scientific text book above described, which are usually high priced is out of the question unless there be a substantial increase in the present allowance.

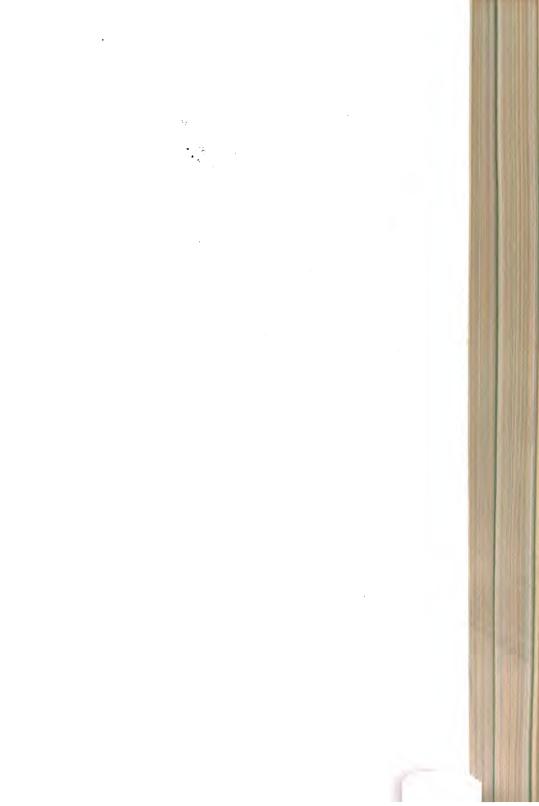
I also observe that many of the books of standard authors of fiction, constantly in demand, have been in circulation for man years and should be replaced by new ones. The wear and tear twhich the books are subjected appears to be very great and the facilities and tools at hand for rebinding and repairing same are decidedly primitive.

Our View Point, the monthly magazine published by the inmate of the institution, is just entering upon its fourth year. Its prestig and influence is steadily increasing and its effect in educating th public on matters pertaining to prison reform is undoubtedly great it is widely quoted by newspapers and periodicals throughout the stat and is generally considered to be the best prison paper in the country Much of its value as an exponent of prison conditions is due to the fact that it is virtually uncensored and that none of its utterances are inspired or suggested by any of the officials.

The print shop, in addition to printing our View Point, turns our many forms and blanks for use in the different departments of the institution, thus saving hundreds of dollars per annum, without taking into consideration the cost of labor employed.

The supervision, inspection and perusal of all incoming and our going correspondence of inmates consumes the greater portion of m time. About 3,500 letters per month are sent and received. All letter are carefully read, and a record kept of all addresses. Requests for special letters are freely granted in case of sickness, accident or death and in all matters of importance pertaining to business or domestic affairs, as well as to enable inmates to secure employment, transportation, etc., in the event of final releases, conditional pardons or paroles.

Since I assumed the office of chaplain and the duties therewith, have interviewed from 50 to 60 inmates per month. In no instance have I refused such request. Relative to the subject matter of interviews granted, I wish to state that the same has ranged from religious to legal and domestic questions and affairs.





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I understand the night school held in this institution is being fairly well attended, there being an enrollment of about one hundred and twenty-five pupils. The warden's secretary, Mr. Butcher, acting as principal assisted by a corps of inmates qualified to act as instructors. The subjects taught comprise elementary training, reading and arithmetic. A class in drawing has been organized.

I have visited the hospital at least three times each week or oftener if necessary. I have found many opportunities to minister to the inmates confined there and have been called upon to write letters in behalf of some unfortunate inmates physically or mentally unable to communicate with relatives or friends.

I have visited the woman's department and found the inmates confined there in a receptive mood for both spiritual counsel and religious advice.

In conclusion I beg to express to you and all officers my appreciation for kind co-operation and the uniform courtesy extended to me in the discharge of my duties.

Respectfully submitted, (Signed) T. J. CANNON, Chaplain.

## REPORT OF PRISON PHYSICIAN.

WALLA WALLA, WN., September 30, 1916.

Hon. Henry Drum, Superintendent State Penitentiary.

Sir: I submit the attached medical report for the biennial peri-October 1, 1914, to September 30, 1916, with the following recapitudations and recommendations.

Epidemics.—There have been no serious epidemics during the period. There has been one mild epidemic of influenza.

Deaths.—There have been eight deaths, four due to tuberculosi

Tuberculosis.—There have been seventeen cases of open pulmonal tuberculosis.

Typhoid.—There have been no cases of typhoid fever during the period.

Prophylaxis Anti-Typhoid Bacterin.—Eight hundred and fifty-fivinmates have been immunized with anti-typhoid bacterin. All inmate are given this anti-typhoid bacterin on entrance.

Syphilis.—Sixty-five cases of syphilis were treated during the period. Fifty-five were isolated until treatment became effective September 30, 1916, there are only three syphalitic cases isolated. There are forty-five inmates on treatment for syphilis.

Surgical Operations.—Sixty-seven major operations have been per formed at the hospital during this period.

Malnutrition of Inmates.—There have been no serious cases of malnutrition during the period.

Psychological Study of Inmates.—I have commenced a systematic study of the mental condition of inmates and the factor of environment heredity, anatomical stigmata and physiological stigmata.

Sanitation.—The buildings are in a fair sanitary condition.

Water Supply.—Good.

Food Supply.—The food supply has been of sufficient quality and quantity for sustenance and for the performance of an average day's work.

Recommendations—Building for Tubercular Patients.—I recommend that a small building be constructed outside the main walls for treatment of inmates suffering with open pulmonary tuberculosis. The present ward assigned to tubercular patients is small and inadequate for the treatment of this disease.

These patients should be isolated and it is impossible to do so ithin the prison hospital.

Respectfully,
(Signed) BERT LOGAN JONES, M. D. C. M.,

Prison Physician.

### DEATHS.

um- er	DIAGNOSIS	Date of Death	Admitted to Hospital	Received at Institution
186 544	Pulmonary tuberculosis	8-29-15 4-16-15	5- 5-14 2-20-15	2-15-14 1- 4-15
438	Gun shot wound in head	5- 6-15	10-21-14	10-21-14
792	Pulmonary tuberculosis	2-10-16	12-28-15	7-30-15
185 715	Pulmonary tuberculosis	4- 8-16	1- 6-16	7-24-11
	pulmonary tuberculosis	5-27-16	5-27-16	5-29-15
716	Chronic myocarditis	6- 6-16	3-25-16	11-25-12
814	Pulmonary tuberculosis	8-22-16	4- 8-16	8-17-15

Totals deaths this biennial period,...... 8 Total deaths last biennial period.......10

## INMATES TRANSFERRED TO MEDICAL LAKE.

	Date of Transfer	Received at Institution
	12- 8-14	7-28-13
		11-12-18
		8- 8-14
		10- 4-14
	2-24-15	5- 6-13
		12-23-14
		10-10-13
		2- 6-15
		3-18-15
		10-20-05
		10- 4-14
		11-19-14
		6-22-15
		9-29-12
		4- 9-15
,	6-28-16	9-30-15

tal inmates transferred to Medical Lake this blennial period	
tal inmates transferred to Medical Lake last biennial period	32
minal insane received in institution during blennial period	4
minal insane discharged from instituton durng biennial period	3
ber insane in institution September 80, 1916	
Septice in institution September 30, 1916	1
tal inmate population September 30, 1916	
tal inmate population September 30, 1914	730

## MEDICAL CASES TREATED IN HOSPITAL.

DIAGNOSIS	This Biennium	La Bien
dentis	1	
dentisortic regurgitation	i	1
phasia	i	
sthma	5	
rthritis	i	l
ttacks of confusion	5	I
nuria	ĭ	
cute rheumatism	8	
elpharitis	2	
ronchitis, chronic	2	1
olie	1	
olitis	1	
onvulsions	2 2	· • · · ·
onjunctivitis	2	i
onstituation, chronic	28	• • • • •
ystilis	28 3 2	
acrocystitis	2	
ementia	7	i
labetes	4	1
iabetes insipidis ypsnoid	1	
ypsnoid	2	
pileptoid attack	i	
pistaxis	2	1
rysipelas	2 1	
rythema	ā	
loating kidney	4	
uruncolosis	2	
astric crisis	2	
eneral debility	9	
onorrheal arthritis	2	
emorrhage, urethal emorrhage bowels	1	
emorrhage bowels	1	
digestion, acute	5	
fluenza	7	
ncipient tuberculosis	2	
itis	1	• • • • • •
aundice	1 1	
aryngitis, acute	i	
ymphngitis ymphocystosis	i	,
elancholia	i	,
igraine	î l	
yocarditis, chronic	ıî İ	
ephritis, acute	74	
euralgia	i	
euritis	2	
eurosis	4	
titis media	6	
edema, scrotum	1	
rchitis	1	, <b></b> .
leurisy, acute	2	
leurisy, chronic	1	, <b></b>
himosis	1	•••••
ulmonary oedema, complicating pulmonary tuberculosis	1	
ulmonary tuberculosis	18	
eptic ulcer	1	,
olyuria	1	
ruritis	1	
artial suffocation by gas	66	
philis (total cases)	oo ∣	
(confined to syphilitic corridor	1	
(discharged from syphilitic corridor		
(remaining in syphilitic corridor September 30, 1916 3)	1	
achycardiaoxdema	îl	
	il	

## SURGICAL CASES TREATED IN HOSPITAL.

DIAGNOSIS	This Biennium	Last Bienniun
esions	,	
cess, chronic, back	1 1	
cess, chrome, backcess, perirectal		
cess, tuberculosis	i	
endicitis		
neal ulcer		
tusions		
ulitis, finger		1
ulitis, scrotum	li	
ulitis, submaxilliary	l ī	
aract		
ect in skull	1	
ocation left hip, old	1	
ation nasal septum	1	
arged thyroid	2	
arged cervical nodes	1	
arged spleen		
ula rectal	2	
cture, radius	1	[ · · · · · · · · · · · · · · · · · · ·
cture, rids	2	2
cture, clavicle		1
rture, fibula		2
cture, nose		2
cture, left pattela		
grene, traumatic		
coma, left eye	1	
shot wound		3
norrholds		2
nia, inguinal		1
nia, ventralnia, scrotal	1 1	
disease		
trocele		
cted stump, leg		i
eretina	5	16
erations	li	1
rosis	l î	
ning in soft palate		
al papilloma	ī	
s, discharging	5	
ained ankle		1
sined knee		
i in eye	2	
огтаbaphy	1	
umatic partial amputation fingererculosis nodes	1	
nor of breast		
ecend d'testicle		1
n		1
thal stricture		
icose veins		1
icocele		
comytitis		
rorrhaphy popliteal nerve		
rosis bone	2	2

## MAJOR OPERATIONS.

6,783 7,089 6,846 7,190 6,791 6,791 6,791 7,456 6,894 7,429 7,505 7,574 6,781 6,781 6,658 6,305 7,574 6,426 6,395 6,426	Inguinal hernia Inguinal hernia Hemorrholds Hemorrholds Scrotal hernia Sinus lower end right tibla Inguinal hernia post operative. Sinus left forearm. Hydrocele Inguinal hernia Inguinal hernia Inguinal hernia Inguinal hernia Inguinal hernia Inguinal hernia Inguinal hernia Neurorrhaphy popliteal nerve. Inguinal hernia Necrosis right femur. Tuberculous nodes Hemorrholds Hemorrholds Hemorrholds Hemorrholds Ventral hernia Tuberculous nodes	923-14 11- 7-14 11- 7-14 11- 7-14 12- 2-14 12- 2-14 12- 2-14 12- 2-14 12- 1- 6-15 1-12-15 1-12-15 2- 6-15 2-11-15 2-11-15 3-18-15 3-18-15	2- 2-13 12- 8-18 9-26-13 2-27-14 2-21-14 2-14-13 10- 4-08 11-14-14 5-25-14 5-25-14 5-22-13 10-11-14 12- 9-14 1.80-15 1-1-15 1-1-16-13 9-22-09	Released Released Released Released Released Released Released Released W. S. P. Released Released Released Released Released Released Released Released
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7,597 6,426	Ventral hernia		12- 8-11	W. S. P.
6,426	Tuberculous nodes	4- 1-15	2-22-15	Released
		5-22-15	2-21-12	Released
7,692	Inguinal hernia	7- 1-15 7- 1-15	4-29-15 2- 6-15	Released W. S. P.
7,581 7,590	Inguinal hernia	7- 1-15	2-0-15	W. S. P. W. S. P.
7,743	Tumor of breast	7-22-15	6-16-15	W. S. P.
7,756	Inguinal hernia	7-22-15	5-22-15	Dixie quar
7,381	Tuberculous nodes	7-26-15	9-5-14	Patient in
				hospita
6,747	Hemorrhoids	9-18-15 9-28-15	12-22-12 8-28-15	W. S. P. Meskili qua
7,819 7,687	Inguinal hernia	9-23-15	4-23-15	W. S. P.
6,344	To close opening in soft palate	9-23-15	1- 6-12	W. S. P.
6,497	Inguinal hernia	9-30-15	4- 6-12	Released
7,800	Varicose veins	9-30-15	4-20-15	W. S. P.
7,855	Undecended testicle	11- 6-15	10- 9-15 6-22-15	W. S. P. Released
7,756	Hydrocele—right testicle removed Tuberculous abscess—testicle removed	11- 6-15 12- 6-15	8-18-15	W. S. P.
7,804 7,927	Glaucoma left eye	1- 2-16	12-18-15	W. S. P.
7,816	Inguinal hernia	1-29-16	6-28-14	Released
7,474	Inguinal hernia	2-17-16	11- 2-15	Released
7,265	Hemorrhoids	1-29-16	5-18-14	W. S. P.
7,670	Inguinal hernia	2-17-16 2-17-16	2- 4-15 9- 5-14	W. S. P. Patient in
7,381	Tuberculous nodes	2-17-10	9- 3-14	hespita
7,663	Old dislocation hip	2-24-16	3-19-15	W. S. P.
7.261	Hemorrhoids	2-24-16	5- 1-14	Released
7.687	Varicose veins	3- 8-16	4-23-15	W. S. P.
7,749	Inguinal hernia	3- 8-16	6-20-15	W. S. P.
7,829 7,890	Hemorrhoids	5-16-16 5-16-16	9-10-15 11- 7-15	W. S. P. W. S. P.
7,890 8,007	Varicocele	5-16-16 5- 4-16	1-24-16	Released
7,640	Bone transplantation to repair defect in skull.	5-25-16	3-15-15	Patient in hospital
7,944	For ectropion—due to gun shot wound	6-22-16	11- 6-15	W. S. P.
7.994	Necrosis left humerus	6-22-16	1-17-16	W. S. P.
6.806	Hemorrhoids	6-27-16	3- 2-18 6- 9-16	W. S. P.
8,101	Inguinal hernia Inguinal hernia	6-29-16	6- 9-16 8-15-14	W. S. P. W. S. P.
7,359 7,988	Hemorrhoids	6-29-16 7-12-16	1- 7-16	W. S. P.
7,988 8,091	Hemorrhoids	7-12-16	5-19-16	Patient in
0,001		. 10 10	0.0.0	hospital
6,624	Hydrocele	8-24-16	8- 4-12	W. S. P.
7,258 7,956	Hemorrhoids	8-24-16 9-14-16	5- 1-14	W. S. P.

## Major Operations—Continued.

er er	OPERATION FOR	Date of Opera- tion	Received at Insti- tution	Where Working
08 58 55	Inguinal bernia Hemorrhoids Varicocele	9-14-16 9-14-16 9-27-16	1- 6-15 10-22-11 8- 7-16	W. S. P. W. S. P. Patient in
8	Varieose veins	9-27-16	5-29-15	hospital Patient in
<u> </u>	Neurosis	9-27-16	12-29-12	hospital W. S. P.

## RECAPITULATION.

	This Biennium	Last Bienniun
Total major operations	67	25
Total minor operations.	140	30
Total received in hospital.	472	275
Total discharged from hospital	444	249
Total remaining in hospital September 30, 1916	25	16
Total hospital treatments		I
Fotal prescriptions filled		18.685
otal teeth extracted	188	69
otal urine examinations	478	60
otal sputum examinations	82	47
otal blood examinations.	<u> </u>	
otal diagnostic tuberculin tests	8 8	
otal Salvarsan treatments for syphilis		8
otal surgical dressings		1
otal officers treated		
otal officers given prophylactic injections anti-typhoid bacterin		1
otal inmates given prophylactic injections anti-typhoid bacterin		1

There have been no serious epidemics during the period. The general health has been good.

Respectfully submitted,
BERT LOGAN JONES, M. D.
Prison Physician.

# Table No. 1.—POPULATION.

STATISTICS OF PRISON POPULATION FOR TWO YEARS ENDING SEPTEMBER 30, 1916.

	State B	Board of Control	
Totals.		∞820-451-8821-8-2082-48-48-48-48-48-48-48-48-48-48-48-48-48-	
Expiration of Sentence	Female		-
Expir Sent	Male		
Order o	f Court	04 00 00 00	
Died		ннн ннн	•
Final	e Commuted, Release from e	388018188882777115140468	
Escapeo	i	84 H 4H80H80H80H 80 HH H8	
Taken t	to Insane Asylum	4 64 60 64 60	
Taken t Refor	to Monroe matory		
Conditi	onal Pardon	88 123 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Pardon	ed	Онене не пе	
Deporte	ed	H844 6 4 4 4 4 6 4	1
Totals.		37.7888678878888888488884	í
Returne Refor	ed from Monroe matory		
	d from Monroe matory	900 44HHD0 H 00	;
Returne As ylu	ed from Insane m		,
Returne	ed from Court	HH 00 H 00 HH HH	;
Returne tional	ed from Condi- l Pardon	1000 HHT   00 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11 HT   11	8
Escapes Retur	Captured and	∞000 H∞H H400H H 0H0	8
From Court	emale	0 -00	
MOLEN IN	fale	448888888888888828462 ₂₀	
	MONTHS  Commencing October 1, 1914, and ending Suptember 80, 1916.	October, 1914  November, 1914  November, 1914  January, 1915  March, 1915  April, 1915  April, 1915  July, 1915  July, 1915  September, 1915  September, 1916  September, 1916  Pebruary, 1916  Mary, 1916  Pebruary, 1916  Mary, 1916  January, 1916  April, 1916  January, 1916  January, 1916  January, 1916  January, 1916  January, 1916  January, 1916  January, 1916  January, 1916  January, 1916  January, 1916  January, 1916  January, 1916  January, 1916  January, 1916  January, 1916  January, 1916  January, 1916  January, 1916  January, 1916  January, 1916  January, 1916  January, 1916  January, 1916	Thotale

Table No. 2.

## HOWING NUMBER OF CONVICTS IN PENITENTIARY FOR TEN YEARS ENDING SEPTEMBER 30, 1916.

DATE	Prisoners	Received	Released	Average Attend- ance		Per Cent. Decrease
ptember 80, 1907	887	859	312	882.81	7.04	
otember 80, 1908		495	866	970.8	9.987	
otember 30, 1909		423	318	924.55		
otember 80, 1910		886	556	783.28		20.69
otember 80, 1911		415	501	600.76		18.06
otember 80, 1912		456	820	771.07		
tember 80, 1913		875	486	883.08	8.04	,
tember 80, 1914		414	515	757.29	1	9.097
tember 80, 1915		489	845	864.45	14.15	
tember 30, 1916		821	409	881.78		3.785
Totals		4,083	4,128	8,169.77		l

Average number of convicts for ten years-816.97.

Table No. 3.—COUNTY.

## IOWING NUMBER OF CONVICTS FROM DIFFERENT COUNTIES FOR TWO YEARS ENDING SEPTEMBER 30, 1916.

COUNTIES	Present October 1, 1914	Du	eived ring Years	cha Du	is- rged ring Years	Present Septem- ber 30, 1916
ims tin	14	( <del>†2</del> )	11 6	(*1)	11 2	14
ton lan llam	5 16 1	(†2)	11 6	(*1)	3 16 8	11 4
rke imbja viitz glas	15 4 5	(†1)	20 6 7	(*1)	18 8 7 8	17 2 5 1
gias iy nklin field	3 11	(†1)	4 12	(*1)	12	8 11
ntys Harborad	7 22		1 22 8	(*1)	5 21 3	8 23
erson	195 4	(†7)	210	(*12)	8 200 6	206 4
itas kitat is	82 23 4	( <del>†2</del> )	21 6 30 16	(*2) (*3)	28 4 80 11	25 2 23 9
on	1 11 1 5		9 7 4		1 12 5	2 8 3 5
i Oreille	87 1	(†5)	67	(*1)	72 1	82
rit nania	16 4		26	(*1)	14	28 4
omishensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensensense	27 107 11 14	(†1) (†8)	49 128 12 11	(*2) (*8)	23 100 14 14	58 185 9 11
kiakum a Walia iman teom	1 19 19 18	(†3) (†2)	27 28 16	(*8) (*1)	1 20 28 15	26 24 19
Totals	789	(1)	26 810	(*2) (35)	87 754	796

Escapes returned. * Escapes.

## Table No. 4.—CRIMES.

# SHOWING CRIMES COMMITTED BY CONVICTS FOR TWO YEAR ENDING SEPTEMBER 30, 1916.

CRIMES CONVICTED OF	Present October 1, 1914	Received During Two Years	Dis- charged During Two Years	Presentem 30, 1
Abduction	1	8	1	
Abortion	<b>.</b>	i	i	ļ
Abuse of female child	1	8	2	
Adultery	1	2	i	
reon		1		
Aring second degree	8	<b>8</b> 1	7	1
Arson, second degree Asking, accepting and receiving a bribe Assault to commit murder. Assault to commit robbery.	1		<del>.</del>	
assault to commit robbery	1			1
Assault to commit sociomy	1		18	1
Assault in the second degree.	87	40	52	)
Assault in the second degree. Assault, second degree, intent to commit sodomy. Assault and battery. Assisting prisoner to escape. Attempt to commit burgiary. Attempt to commit forgery. Attempt to commit larceny. Attempt to commit murder. Attempt to commit murder.		1		
Assault and battery		1	• • • • • • • • • • • • • • • • • • • •	
Attempt to commit burglary	1	8	4	1
Attempt to commit forgery		1		i
Attempt to commit larceny	4		4	
Attempt to commit rape	8	1	2	
Attempt to commit robbery	9	8	6	İ
ttempt to commit sodomy	2		2	
Aftemnt to commit & falony	. 9	2	• • • • • • • • • • • • • • • • • • • •	
Attempt to sell liquor to Indians	1	8	4	
Attempted carnal knowledge of female child	2	4	2 7	
Bigamy Blackmail		5		
Burglary, first degree		5	5	
Burglary, second degree		182	201	1
Darnal abuse of female child	2	18		
Jarnal knowledge of children	i			
Jarnal knowledge of a horse		1 1		
Trime against nature		Y		
Orime against nature		1		
Drawing no fund check.	1			
Extortion	1		1	• • • • • • •
Corpery in the first degree	61	101	90	•
Forgery in the second degree	12	2 2	2	
Seaping from prison	1	1	1	
Sambling Frand larceny	124	198		1
Habitual criminal	9	5	3	
ncest nsane criminal	9	4 4	3	
SPOON W		2		
Larceny from the person.  Larceny by bailee.  Living with a prostitute.	4	1	2	
Jarceny Dy Dailee	1	2	2	
Living off earnings of a prostitute	1	1		
Manslaughter	19	13	8	
Making false statement of assets and liabilities of		ا , ا	1	
bank		i		
			1	
Misappropriation of state funds	1 23	18	8	

Table No. 4.—CRIMES—Continued.

## OWING CRIMES COMMITTED BY CONVICTS FOR TWO YEARS ENDING SEPTEMBER 30, 1916.

ORIMES CONVICTED OF	Present October 1, 1914	Received During Two Years	Dis- charged During Two Years	Present Sep- tember 30, 1916
aining money under false pretensesaining goods under false pretenses	1		2	i
ury ing female in house of prostitution ping	2 2	8 3 1	2 1	8 4
e	15 1	5 2	11	9 2
bery from the person	85	80 2	47	118 2
netion ng intoxicating liquor to an Indian ng inxtoxicating liquor to an Indian	7	1 8 1	1 12 1	8
omy ring a forged instrument them or maiming	20 4	12 1 1	17 2	15 8 1
Totals		810	754	795

# Table No. 5.—TERM OF SENTENCE.

## OWING LENGTH OF SENTENCE OF CONVICTS FOR THE TWO YEARS ENDING SEPTEMBER 30, 1916.

STRAIGHT SENTENCES	Present October 1, 1914	Received During Two Years	Dis- charged During Two Years	Present Sep- tember 30, 1916
ight eighteen months.  ight 1 year.  ight 22 years.  ight 24 years.  ight 14 years.  ight 15 years.  ight 25 years.  ight 25 years.  ight 26 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 16 years.  ight 17 years.  ight 17 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 years.  ight 18 y	1 1 1 2 8 1 1 40 6	1 2 1 1 1 25	2 2	1 1 1 1 1 55 6 1 727
Totals	789	810	754	795

## Table No. 6.-TERM OF SENTENCE.

# SHOWING LENGTH OF SENTENCE OF CONVICTS SENTENCE UNDER THE INDETERMINATE SENTENCE LAW SINCE IT ENACTMENT TO SEPTEMBER 30, 1916.

ទរ	ENTENCE	Present October 1, 1914	Received During Two Years	Dis- charged During Two Years	Prese Sep- temb 30, 19
MINIMUM—	MAXIMUM—				
Six months	One year	8	8	11	
Twelve months	Twelve months	2	1	1	i
One year	Two years	8 9	7 9	7 14	l
Two years	Two yearsTwo yearsTwo yearsThree years	i			i
One year	Three years	5	7	6	l .
()no veer	MOUT TORTE	1	2	<u></u>	•
SIX MODULES	Five yearsFive years	2 18	6 14	5 20	
Eighteen months	Five years	3	2	2	1
TWO VARIS	Pive veers	8	12	11	!
Two and half years.	Five years	8	8	1	<u> </u>
Three years	Five yearsFive years	5	8 2	4	
Five years	Five years	2	ĺį	2	1
Five years	Five and half years	4	8	8	
One year	Six years	1 1		1	·····;
Five years	Six years Seven years	12 1	11 1	6 2	1 1
Three vears	Seven Vears	l ī		î	
Five years	Seven years	5	5	6	
One year	Seven and half years	2	4	8	1
Six months	Seven and half years Eight years	2 6	1 2	2 2	Ì
Five years	Nine years	1	l	ī	<u> </u>
Six months	Ten years	5	14	10	Ι.
One year	<u>T</u> en years	20	32	32	2
Eighteen months	Ten years\	1 15	3 18	22	i 1
Two and half wears	Ten yearsTen years	1 2	8	2	
Three years	Ten years	10	8	8	1
Three and half year	Ten years	2		2	• • • • • • • • • • • • • • • • • • • •
Four years	Ten years	2 49	45	2 29	6
	Ten years		45		]
Five Vears	Twelve vears	3	1	2	:
Seven years	Twelve yearsTwelve years	1			1
One year	Fourteen years	2	1	<b>3</b> 1	
One year	Fourteen years	·	4	â	
Eighteen months	Fourteen years		i		1
Five years	Fourteen years	2		2	
Ten years	Fourteen years	2		74	92
Nine months	Fifteen years	36 2	61 8	2	3
One Vest	Fifteen vears	120	170	179	111
Eighteen months	Fifteen years	3	12	9	9,
Two years	Fifteen years	25	25	26 5	12
Two and half years.	Fifteen years	5 21	12 24	19	96
Four vears	Fifteen years	9	10	4	15
Five years	Fifteen years	48	26	32	42 1
Five and half years.	Fifteen years		1	2	1
Six years	Fifteen years	2 2		2	2
Ten years	Fifteen yearsFifteen years	10	7	5	19
Ten vears	Seventeen veara		li		1 5
Six months	Twenty years	5	12	12	1
Nine months	Twenty years	.) 1	1 1	1 .	•

Table No. 6.—TERM OF SENTENCE—Continued.

SE	NTENCE	Present October 1, 1914	Received During Two Years	Dis- charged During Two Years	Present Sep- tember 30, 1916
MUMINIM—	MAXIMUM—				
year	Twenty years. Twenty years. Twenty years. Twenty years. Twenty years. Twenty years. Twenty years. Twenty years. Twenty years. Twenty years. Twenty years. Twenty years. Twenty years. Twenty years. Twenty years. Thenty years. Thirty years. Thirty years. Thirty years. Thirty years. Thirty years. Thirty years.	. 22	55	87	40
years	Twenty years	. 15	8	10	18
e years	Twenty years	. 9	4 2	6 2	18 7 2 41 8 1
years	Twenty years	. 89	20	17	47
years	Twenty years	. 2	2	1	8
years	Twenty years	. 18	5	4	119
ve years	Twenty years	. 1			!
years	Twenty years	. 1	3		1 2
years	Twenty-five years	. 8	2		10
years Years	Thirty years	. 3	5	2	6
en years	Thirty years	. 2	ī	<u>-</u>	8
years	Forty yearsForty-five years	4		1	3 3 1
уевля <i>.</i>		. 1			ĺ
years	Ninety years Ninety-nine years	1 1			1 1
years	Life	i	1	1	1
years	Life	3		······i	8
years	LifeLifeLifeLifeLifeLife	i		i	
ears	Eight yearsLife.	.1 1	1	1	1
en years	Nine years	i	i	1 2	
and half years	TWENTY VERTS	9	R .	1	4
years	Six yearsTen yearsTen years	1	2 2	2 1	] ]
months	Ten years		1	1	
teen months	Ten years. Twenty years. Three years. Seven and haif years. Eight years. Ten years. Ten years. Twenty-five years. Witten years.		1 5	1 3	
and half years	Seven and half years		i		2
e years	Eight years		1 2	1	
and half years.	Ten years		ī		¦i
t years	Twenty-five years		1		
years	Fifteen yearsFive years, one month		2		1 2
less than three ye	ars and six months		1 5	12	1
less than two yea	rs	8	i	1	3
less than three ye	ears	. 3		2 1	1
more than six mo	nths	. 1		1	
more than one ye	ar	. 1		1	
nonths	years Eighteen months	9	3	4	1 1
en months	Fifteen vears	. 9	i	2	î
eight months	Twelve yearsFive years	1 1		1	·····i
months		1 1	[	1	<b> </b>
i and half years. more than twenty	Fifteen years yearsFive years one day	1	·····i		1 1
years	Five years one day		5	2	3
years	Five years three months		2	• • • • • • • • • •	1 3 2 1
months	Three yearsths.		i	1	
			2	1	1 1

Table No. 6.—TERM OF SENTENCE—Continued.

SENTENCE	Present October 1, 1914	Received During Two Years	Dis- charged During Two Years	Pres Ser tem 30, 1
MINIMUM— MAXIMUM—				
Six monthsNine months		1	1	ļ. <b></b> .
Five yearsFive years, two months		1		
Six monthsSix months, one day		2	1	1
Ten monthsFifteen years		1		1
Ten yearsTwelve years				ļ
Ten years Thirty-five years		1		l
Three years, six months Twenty years		1		1
Four years, six months. Twenty years		1		1
Table No. 5, straight sentences, brought forward	57	84	23	
Grand Totals	789	810	754	

Table No. 7.

SHOWING NATIVITY OF CONVICTS FOR TWO YEARS ENDING SEPTEMBER 30, 1916.

NATIVITY	Present October 1, 1914	Received During Two Years	Dis- charged During Two Years	Prese Sep temb 30, 19
Alabama	2		2	
Alaska	l	il	<del>.</del>	
Arizona		ī l	1	
Arkansas	2	i il	Ž	l
California	.24	i 19 l	16	! :
Colorado	8	7	8	1
Connecticut	I	2		1
District of Columbia	1	2	1	
Florida	ī	2	1	
Georgia	8	3	2	i
Illinois	41	38	41	8
Iowa	23	25	27	: 2
Idaho	4	3	8	ĺ
Indiana	16	17	18	1
Kansas	14	20	16	] ]
Kentucky	20	18	17	2
Louisiana	4	5	4	l
Maryland	8	8	2	
Maine	5	5	1	
Massachusetts	15	. 19	17	1
Michigan	26	82	29	2
Minnesota	27	84	82	2
Missouri	87	88	32	3
Mississippi	5	4	2	- 1
Montana	2	6	5	
Nebraska	4	12	5	11
New Hampshire	i	4	5	
New Jersey	1 4	4	5	8
New Mexico	ī			.1
New York	44	46	45	45
Nevada	i	4	2	3
North Carolina	وَ ا	اية ا	8 1	3

Table No. 7—Continued.

WING NATIVITY OF CONVICTS FOR TWO YEARS ENDING

SEPTEMBER 30, 1916.

Dakota	NATIVITY	Present October 1, 1914	Received During Two Years	Dis- charged During Two Years	Present Sep- tember 30, 1916
Int	oma  o yivania Island Dakota	4 36 9 36 4 7 6 8	5 27 16 29 1 1 17	6 32 14 34 1 7 9	31 11 31 4 1 14 12
In	nt ia ngton Virginia nain ing Rieo	2 9 83 20	8 47 3 28 1	1 8 30 81	1 9 50
ad         23         26         26         23           d         5         1         4         2         2           d         6         14         14         6         14         14         6           ny         29         25         34         20         2         34         20           ian         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	ia Dia Ma	2 1 28 1 1 1	2 1 1 36 1 1	2 24 1	1 40 1 2
Scotia   2   2   4	nd	23 5 6 29 5 1	26 1 14 25 10	26 4 14 34 8 1 2	⁷
1	ca. ) negro srunswiek	29 10 8 1 10	22 2 4 2 1 15	25 6 1 15	12 26 2 8 2 3 1 10
	nd	3 4 5 1 2 8	4 8 9 5 2	2 5 8	5 7 6 1 2 6 1 3
	Indies pines	2 1	1 2 1 1		1

Table No. 8.

SHOWING OCCUPATION OF CONVICTS FOR TWO YEARS ENI
SEPTEMBER 30, 1916.

OCCUPATION	Present October 1, 1914	Received During Two Years	Dis- charged During Two Years	F (3)
Accountant	2	7	4	Γ
Actor	2		i	l
Architect	1			1
Attorney—lawyer	5 1	2 3	4 3	
Baker		1 4	5	1
Banker	2	7	6	1
Barber	12	16	12	l
Bartender (barkeeper)	2	1 16	15	
Bollermaker		3	4	
Bookbinder	2	l	i	
Bookkeeper		17	11	l
Bridgeworker		1	1	
Bricklayer Broker		1 1	i	
Butcher	1	8	4	ĺ
Cabinet maker		8		1
Chauffeur		2 20	1 12	
Carpenter		20 1	12	
Cigar maker		î		
Clerk	6	9	10	
Contractor		. 8	4 55	
Cook		55 1	30	
Cowboy		2	2	
Crackerman	1	2	1	
Dairyman		2		
Demonstrator		1	1	
Decorator	l <del>.</del>	i i		•
Dentist	1	<del>.</del>	1	٠.
Dishwasher		[ <u>-</u>		
DetectiveElectrician	10	1 7	9	
Engineer	20	22	20	
Engineer, civil		1 1		
Engineer, gas		1	40	
FarmerFireman	48 13	57 16	40 16	
Fisherman		2	1	
Film operator			1	
Florist	2	1	2	
Furniture finisher		1 1	1 :	• • •
Engraver		i		
Gardener	5	i	5	
31ass blower		' 1	2	
Harness maker		1 1	1 1	•••
Horseman Hostler		¦ 3		
Hotel keeper	! i	4	• • • • • • • • • • • •	
Housewife	2	7	8	
Housekeeper	3	. 3	2 5	
ron worker		4 2	2	•••
Janitor		8	2	
	â	2	2	
Journalist				
Laborer	225	221	209	
Laborer Land grader		1		
Laborer	225 5 1		3	

Table No. 8—Continued. WING OCCUPATION OF CONVICTS FOR TWO YEARS ENDING SEPTEMBER 30, 1916.

boreman rman ist engraver se maker	11		Two Years	tember 30, 1916
rman ist engraver en maker		13	15	9
ist engraver m maker		1		1
engraver	2 14	20	2 15	19
maker		3	2	1
aker	1			1 1
aker	1	1 2	1	, ,
n (sawmill hand)	2	3	2	3
ght	1 25	22	18	2 3 1 29
man		1	2	239
T	1 3 7 1 2 1 2		1	2
(famele)	7	1	5	2 3 1
(female)	9	5	3	1 1
у	ī		ĭ	
upation	2 1		1	1
maker	17	18	1 20	10
rapher		2		2
an (male)	2	1	3	
an (female)	1	1	1	·····i
T	4	4	6	2
	5 5 1 3	8	8	5
man	5	7	9	3
T	3	6	3	2 5 3 1 6
d man (switchman)	9	10	12	7
	1 11	18	1 14	10
ker	1	1	2	
an	9	5	5	9
	3	1	3	1
weaver		7	ĭ	6
fitter	4	2	2	4
tapher	• • • • • • • • •	3 1	2	1
1		î	1	
hand		1		1
an	1 3	1	1 2	1
ason	ĭ		ī	
	15	11	15	11
pr	1	1 2		1 2
	15	13	13	15
, school		5	2	3
erpher	31 1	30 1	39	22
ne operator		î		3 15 3 22 2 1
		1		1
eeperforeman	1	·····i	1	
maker	1			i
erer		1		1
iller	31	1 24	1 28	27
chopper		1		1
naker	2	1		3
Totals	739	810	754	795

Table No. 9.

# SHOWING SEX AND COLOR OF CONVICTS FOR TWO YEAR ENDING SEPTEMBER 30, 1916.

SEX AND COLOR	Present October 1, 1914	Received During Two Years	Dis- charged During Two Years	Pro S ter 30,
White male White female Negro male	7 56	749 18 36	683 12 43	
Negro female Indian male Chinese male	10 1	2 4 1	6	
Japanese male Kanaka male Hindu male	1 2	4	6 2	<u> </u>
Korea male	739	810	754	-

Table No. 10.

## SHOWING EDUCATION OF CONVICTS FOR TWO YEARS ENDIN SEPTEMBER 30, 1916.

EDUCATION	Present October 1, 1914	Received During Two Years	charged During	Prese Sep temb 30, 19
Academic	4	3 8	i	
Collegiate	19	6	17	
Common school	588	662	608	5
Grammar		1 1		
High school		71	44 65	
No education		44 2	65	
Private		8	8	
Private and public	17	1 2 1	8	
Self educated	1 7	2	2	
Read only		l īl		
Read and write			3	
University		10	8	
Totals	739	810	754	-

Table No. 11.

# HOWING AGE OF CONVICTS WHEN CONVICTED DURING THE TWO YEARS ENDING SEPTEMBER 30, 1916.

	AGES	Present October 1, 1914	Received During Two Years	Dis- charged During Two Years	Present Sep- tember 30, 1916
years		1 1			1
years years	***************************************	6	1 8	4	2 5 12
years	••••••	13	11	12	12
years	•••••	18 14	14 11	12 11	1 20
years years	••••••	31	38	24	14 45 23
years	•••••	32	21	30	23
years	•••••	35	34 23	41	28 27 30 33 38 28
years	•••••	26 27	32	22 29	30
years	***************************************	22	35	24	83
years	•••••	39	36	87	38
years years	•••••	23 29	27 32	27 34	28
years	***************************************	21	16	21	27 16 26 23
years	•••••	46	39	59	26
years years	***************************************	27 20	25 38	29 33	23 25
years		28	38	30	36
years		25	24	22	27
years years	•••••	26 17	22	17 25	31
years		14	28 25	20	18
years		14	27	18	23
years	••••••	12	14	13	13
years years		18 15	17 17	19 13	16
years		8	11	8	ii
years		13	18	18	13
years years		12 10	18 14	8 12	17
years		10	7	4	13
years		7	11	8	10
years years		9	13 6	10	12
Years		12	12	13	l ii
<b>years</b>			12 5 6	13 3 6	5
years		7	6	6 1	1 :
years years		3	7 3 6	5	1 5
years		5	3	5 4	4
years	•••••	4 7 2 3 5 1 3 3 1 2		4 2	3
years years		8	4	2 2	5
years		ĭ	2 2		. 3
years	• • • • • • • • • • • • • • • • • • • •	2	2	2	2
years years	•••••	4 2	7 2	3 2	8
years		2		<b> </b>	. 2
years	••••	. 3	8	2	4
years Years	••••	1 2	1	2	3
years	••••••••	í	i	i	36 27 31 15 18 23 16 19 11 13 17 12 13 10 12 5 5 5 5 5 8 8 2 11 5 5 7 7 7 7 8 7 8 7 8 7 8 7 8 7 8 8 8 8
years	••••	1	1	1	1
years	••••	2	·····	1	1
years years	••••••••	1			
years	••••			[	.
years	••••	2	• • • • • • • • • • • • • • • • • • • •	1	1

Table No. 12.

## SHOWING HABITS OF CONVICTS FOR TWO YEARS ENDING SEPTEMBER 30, 1916.

HABITS .	Present October 1, 1914	Received During Two Years	Dis- charged During Two Years	Present Sep- tember 30, 1916
Intemperate Moderate Temperate		502 66 242	546 7 201	507 64 224
Totals	739	810	754	795

Table No. 13.

# SHOWING PLEAS OF CONVICTS FOR THE TWO YEARS ENDING SEPTEMBER 30, 1916.

PLEAS	Present October 1, 1914	Received During Two Years	Dis- charged During Two Years	Present Sep- tember 30, 1916
Guilty	I	537 273 810	488 206	455 340

## Table No. 14.

# SHOWING CIVIL CONDITION FOR THE TWO YEARS ENDING SEPTEMBER 30, 1916.

CIVIL CONDITION	Present October 1, 1914	Received During Two Years	Dis- charged During Two Years	Present Sep- tember 30, 1916
Married Single Divorced Widower Widow	467 32 52	250 455 60 48 2	215 448 45 48 3	220 479 47 47 2
Totals	789	810	754	795

Table No. 15.

## SHOWING DOMESTIC RELATIONS OF CONVICTS FOR TWO YEARS ENDING SEPTEMBER 30, 1916.

DOMESTIC RELATIONS	Present October 1, 1914	Received During Two Years	Dis- charged During Two Years	Present Sep- tember 30, 1916
				1
ther dead	162	157	140	179
ther dead	108	88	94	97
th dead	251	314	294	271
th living	175	220	192	203
known	43	36	34	45
Totals	739	810	754	795

#### Table No. 16.

# IOWING FORMER IMPRISONMENT IN WASHINGTON STATE PENITENTIARY FOR TWO YEARS ENDING SEPT. 30, 1916.

WASHINGTON STATE PENITENTIARY	First Term	Second Term	Third Term	Fourth Term	Totals
sent October 1, 1914. eived during two years	708 691	72 86 58 106	13 14 7 20	2 2 3 1	739 810 754 795

# Table No. 17. EX-CONVICTS OF OTHER PRISONS.

OTHER PRISONS	First Term	Second Term	Third Term	Fourth Term	Fifth Term	Sixth Term	Totals
ent October 1, 1914 dived during two years harged during two years ent September 30, 1916	91 107	88 17 26 24	4 8 5 2	8 1 6 3	3		148 112 144 116

Table No. 18.

# SHOWING RELIGIOUS BELIEF OF CONVICTS IN PENINTENTIAR FROM OCTOBER 1, 1914, TO SEPTEMBER 30, 1916.

RELIGION	Present October 1, 1914	Received During Two Years	Dis- charged During Two Years	Prese Sep- temb 30, 19
Catholic Greek Jewish Heathen No religion	3 5 10	218 3 10 4 21	219 4 7 4 29	2
Protestant Spiritualism Lutheran	442	562 1 1	490 1	5
. Totals	789	810	754	77

Table No. 19.

# SHOWING NUMBER OF PARDONS AND RELEASES FROM OCTOBER 1, 1893, TO SEPTEMBER 30, 1916.

YEAR ENDING	Average Attend- ance	Pardons Granted	Per Cent. of Pardons to Popu- lation	Releases All	Per Cent of Pardom to Tota Releases
September 30, 1893	444.7	14	.08	177	.06
September 30, 1894	440.3	9	.02	200	.05
September 30, 1895	440.2	16	.08	159	.10
September 30, 1896	414.8	20	.04	] 157	.12
September 80, 1897	402.3	22	.05	167	.13
September 30, 1898	354.6	20	.06	210	.09
September 30, 1899		9	.08	158	.06 .05
September 30, 1900	365.6	7	.02	138	.00
September 80, 1901	462.8	8	.019	185	.08
September 80, 1902	566.2	6	.01	204	.04
September 30, 1908	620.09	12	.019	278	.0848
September 30, 1904	671.65	10	.015	298	.07
September 30, 1905	788.8	21	.028	300	.016
September 30, 1906	824.6	5 6	.006	313 312	.019
September 80, 1907	982.8 970.8	8	.0067	866	0218
September 30, 1908 September 30, 1909	924.55	27	.0292	218	.0849
September 80, 1910.	788.28	14	.01909	166	.0251
September 30, 1911	600.70	21	.03495	501	.0419
September 80, 1912	771.07	41	.06817	320	.1281
September 30, 1913	888.08	27	.08241	486	.0656
September 30, 1914		30	.08961	515	.0582
September 80, 1915		6	.0069	845	.01738
September 30, 1916		۱ 4	.0048	409	.00977
Deptember ov, Avivilianianianianianianiani			1		1

Table No. 20.

HOWING NUMBER OF CONVICTS EMPLOYED AT STATE ROAD AND QUARRY CAMPS DURING TWO YEARS ENDING SEPTEMBER 30, 1916.

	Meskill	Dixie	Honor Camp 2	Honor Camp 8	Honor Oamp 5	Total Received
DATE	Received from Peni- tentiary	Received from Peni- tentiary	Received from Peni- tentiary	Received from Peni- tentiary	Received from Peni- tentiary	Quarries and Road Camps
sent September 30, 1914 ober, 1914	8	23 7				10
ember, 1914 ember, 1914 uary, 1915						
ruary, 1915 ch, 1915 ll, 1915						<del>.</del>
, 1915 , 1915	10	28				111
, 1915	8	7			24	39
ber, 1915 ember, 1915 mber, 1915 mary, 1916	2	1			19	1 21
uary, 1916h, 1916	19				30	19 30
l, 1916 , 1916 , 1918	6					6
, 1916 ust, 1916 ember, 1916						16
Totals	105	96	27	64	167	459

	ME	MESKILL		Д	DIXIE		HONOR CAMP 2	RCAN	fP 2	HONOR CAMP	R CA)	(P3	ЭН	HONOR CAMP	CAMP	NO. 5		T
	-	-	T	-	-	İ	-	-	Ť	-	-		-	-	-		T	ot:
		Esc		Ret	Esc	Dis		Esc	Dia		Esc	Dia	Pa			Es	Die	al Die l Sou
DATE	urned enitent	aped	charge	turned Peniten	eaped	charge	turned Peniten	aped	charge	urned	aped	charge	rdoned	d	turned	caped.	charge	charge rces
	to tiary			to tiary		d	to Liary		d	to Liary	<u> </u>	d			to tiary		d	d From
October, 1914	65			-	64				-	00	0.	Ţ,						8
November, 1914	64		10		:	_			- 00	-	-	. 80						នេ
December, 1914	:	:	04	<u>:</u> ਲ	<u>:</u>	<u>:</u>		_		:	_	÷	:	<u>:</u>	<u>:</u>	<u>:</u>	:	<b>3</b> -
February, 1915	-						•				-	3						- 2
	-		<b>∞</b>		_				<u> </u>	-		:						•
ADTIL, 1915 May 1915	•	<del>:</del>	•	_			-		÷	<u> </u>					İ	÷	<del>:</del>	:"
			_									_			:	:	-	. •
بما	-	61	9	•0							-					_		<b>'</b> =
August, 1915	84	-	-	÷	:	:		<u>:</u>	_	:				:	8	<b>œ</b>	:	18
September, 1915	<u>:</u>	:	1	- 0	<del>:</del>	:	:	<u>:</u>	<u>:</u>	<u>:</u>	÷	:	<u>:</u>	<u>:</u> :	:	<u>.</u>	:	▼;
November 1915	•	:	o v	÷	:	<u>.</u>	<u>:</u>	÷		÷	<del>:</del>	÷	<u>:</u> :	:	N -	<u>:</u>		× 6
December, 1915	-		•			2	-								1	-	25	7 S
January, 1916	:	:	<b>10</b>	73	:	_	_		_	··		:	-	• •			2	3
February, 1916	<u>-</u>	:	<u>.</u>	<u>.</u>	<u>:</u>	<u>:</u>	<u>:</u>	÷	i	<del>:</del>	<u>:</u>	:	<u>:</u> ::	<u>:</u> :	-	:	12	ន
April, 1916					<del>: :</del>			:	:	:	<del>:</del>		<u>:</u> :	:	:	:	22	16
fay, 1916	 		•	÷	:	:	÷		-					<u>:</u>	-	<u>:</u>	2.	±°
Tune, 1916			. 0		<u>:</u>	-		:	-	·	- ;-	:		-	•		. m	<b>&gt;</b> ©
August, 1916			1 80				- ·					<u>.</u>	-	<u>:</u>	÷	<del>-</del>	2	3
Reptember, 1916		:	•	13	e0	:	:	<u> </u>	: :					-			<del></del>	<b>~</b> 5
Hotele	10			7.5	<u>'</u> -		; •	i '	-	1	11		_	-		-	1	1

	ber on Parole st Day of Month.	28 118 24 24 37 37 37 37 37 37 37 37 37 37 37 37 37	119 63 63 73 74 74 74 74 74 74 75 76 76 76 76 76 76 76 76 76 76 76 76 76
Aver Es	age Amount rned Per Man	\$545 88 55 46 56 00 69 90 66 13 45 87 47 88 45 80 45 80 45 90 45 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 90 46 9	### ### ### ### ### ### ### ### ### ##
Nu	thly Average mber of Convicts Parole	26.26 17.38 17.38 28.26 28.39 27.32 46.38 46.38 102.38 112.38	112.68 66.04 61.38 66.38 66.38 77.91 77.92 77.92 78.07 78.07 110.19
E8	ount of Money irned by Convicts hile on Parole	1,625 70 70 11,82 35 11,122 35 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,678 70 11,67	\$885, 887 28 2, 738 60 2, 738 60 3, 0,65 25 3, 0,65 25 4, 43 17 70 4, 33 1 70 6, 075 56 6, 242 55
Parc tu	ole Violators Re- rned to Prison	80	500
	ole Violators Other Prisons	99999999	2222222222222
TOE	Still at Large	254255444566666	2282222222
Escaped From Parole	Recaptured	2 1 1 1 2 2	ğ
Kacı	Escaped	106	2 2 1 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2
Died	While Paroled		7
H or	At Expiration.	150	1100
Released From Parole	Commuted	275 8 8 8 9 10 20 20 20 20 20 20 20 20 20 20 20 20 20	88 611
- Rej	Pardoned	2	15 15 15 15 15 15 15 15 15 15 15 15 15 1
	nber of Convicts sleased on Parole	95 72 71 71 71 71 71 71 71 71 71 71 71 71 71	1,106 138 111 55 88 88 88 88 88 112
	MONTHS Commencing October 1, 1914, Ending September 30, 1916.	Taken over by present board October, 1914 November, 1914 December, 1914 December, 1916 February, 1915 April, 1915 Mary, 1915 Mary, 1915 Mary, 1915 Mary, 1915 Mary, 1915 Well, 1915 Well, 1915 Well, 1915 Well, 1915 Well, 1915 Well, 1915 Well, 1915 Well, 1915 Well, 1915	Recheck of parole records show these footings on October 31, 1915, to be correct November, 1915 December, 1916 February, 1916 March, 1916 Mary, 1916 May, 1916 May, 1916 May, 1916 May, 1916 May, 1916 August, 1916 Septrember, 1916

Record of Convicts Paroled Under the Indeterminate Sentence Law to September 30, 1916.

COMPARATIVE STATEMENT of Convicts Received from Court, January to October, 1915, and January to October, 1916. Table to Show the Decrease of Commitments Since the Enactment of the Dry Law.

36	January, 1916	4
	February, 1916	2
		2
		2
		2
		2
		1
	September, 1916	
	<del>.</del>	_
	84 81 46 84 87 82 27	34 February, 1916

					; ;		, <del>-</del> ]		!!
			BRAND			Total	5	Therma	•
	SRS	RB3	+	Ħ	1914 2 and 8				
INVENTORY— October 1, 1914	1,066	1,188				1,065	38 83 19 80	\$25,155 80 22,456 06	
Totals	1,065	1,188				2,198			*\$47,611 36
PURCHASES— October 1, 1914, to September 30, 1916	124	124 125	124 125 1,973	99	748	124 125 1,973 748 {	\$18 76 17 26 24 00 84 864 19 14 18 01	\$2,826 24 2,157 50 47,362 00 26,077 15 9,570 00 4,502 50	
Purchased totals	124	125	1,973	748	750	3,720			91,985 30
Totals	1,189	1,258	1,973	748	750	5,918			\$139,598 75
JUTE USED—October 1, 1914, to September 30, 1916	1,189	1,257	1,957		18 730	1,065 124 1,138 1,138 1,24 1,378 1,500 1,500	28 28 28 28 28 28 28 28 28 28 28 28 29 28 29 29 29 29 29 29 29 29 29 29 29 29 29	24,596 30 47,832 00 627 48	
Totals	1,189	1,257	1,973	18	927	5,187			114,129 80
INVENTORY— September 30, 1916		1		730		780	\$17.26 34.865	\$17 26 25,449 69	
Totals		1		730		731			\$25,466 95

* Biennial report of September 30, 1914, shows inventory of \$47,608.30. Letter M enclosed by double triangle.

Exhibit No. 2. STATEMENT OF JUTE FABRICS.

			14 11 11		P4	PRODUCT		    		
	Grain Bags	Oat Bags	Hop	Burlap, 45-Inch	Hop Warp	Fleece Twine	Jute		Matting, Matting, 18-Inch 36-Inch	Burlap Warp
Inventory—October 1, 1914. *Deduct	276,850	16	207 207	1,016	88	8	88,234 124	68,234 728	35 35	
Totak	274,950	16		1,016	88	8	58,234	728	185	
Manufactured-October 1, 1914, to September 30, 1916	2,414,335		27,873	2,754			56,220		645	847
Totals	2,689,285	16	27,873	8,770	88	8	114,454	728	88	7#8
Sold and delivered, two years 2,545,000 Shrinkage in cleaning raw jute Used by state 15	2,545,000	5	28,5113 8,7163	28,511 8,716	88	8	78,942	254	893	780 78
Totals	2,545,015	16	23,511	8,716	88	80	114,454	<b>4</b> 10 <b>4</b>	792	847
Inventory-September 30, 1916	144,270		4,961	25	253			8128	988	

· Items remitted for in September, 1914, and not included in disbursements.

Exhibit No. 3.

# STATEMENT OF JUTE FABRIC SALES, OCTOBER 1, 1914, TO SEPTEMBER 30, 1916.

otals	Quantity	ARTICLE	Price	Amount
	317,800	Grain bags	\$0.11	<b>\$84,958 00</b>
	999,550	Grain bags	.10	99,955 00
	1,227,250	Grain bags	.07	85,907 50
15,000	400	Grain bags	.08	32 00
		Total		\$220,852 50
3,511	23,511	Hop cloth (yards)	.15	<b>\$</b> 3,526 75
		Total		\$3,526 75
ı	212	45-inch burlap (yards)	.15	<b>\$31 80</b>
1	1,289	45-inch burlap (yards)	.124	161 09
	340	45-inch burlap (yards)	.111	39 10
3,7163	1,875	45-inch burlap (yards)	.10	187 55
254 <b>3</b> ,	2548	Total		\$419 54 \$76 40
2315	2015	15-men matting (yards)	.30	
!		Total		\$76 40
•	100	36-inch matting (yards)	.239	\$23.90
1	85	36-inch matting (yards)	.343	29 20
556	871	36-inch matting (yards)	.45	107 18
		Total		\$220 28
400	400	Hop warp (pounds)	.121	\$50 00
		Total		\$50 00
300	360	Burlap warp (pounds)	.124	\$45 00
		Total		\$45 00
,942	73,942	Jute waste (pounds)	.02	\$1,478 84
		Total		<b>81.478</b> 84

## SUMMARY.

Grain bags	.\$220,852	50
Hop cloth	. 3.526	75
Burlap	. 419	54
18-inch matting	. 76	40
36-inch matting	. 220	25
Hop warp		
Burlan warp	. 45	Ó
Jute waste	. 1.478	84
Forfeitures	. 24	50
Total	9296 A02	21

#### Exhibit No. 4.

### SHOWING FABRICS USED BY THE PENITENTIARY FOR BIEN-NIUM ENDING SEPTEMBER 30, 1916.

ARTIOLE	Price	Amou	nt
91 only oat bags	\$0.08		25
15 only grain bags	.07 .15		70
38 pounds hop warp. 20 pounds fleece twine. 161 yards matting, 18-inch. 5 yards matting, 36-inch.	.15		ó
161 yards matting, 18-inch.	.15 . <b>30</b>	48	
8 yards matting, 36-inch	.45	3	<b>6</b> 0
Total		\$68	93

#### RECAPITULATION.

Remitted to State Treasurer September 30, 1914, to October 1, 1916		
Total	9998 769	7.4

#### Exhibit No. 5.

# STATEMENT SHOWING INVENTORIES AND VALUATIONS AT BEGINNING AND END OF PERIOD.

	VALUE OF JUTE FABRICS ON HAND												
	Ser	ptember 8	30, 1914	Sep	September 30, 1916								
Grain bags	276,850 1,900												
Oat bags	274,960 91 207	\$0.08 .08	\$21,996 00 7 28		<b>\$0.11</b>	\$15,869 70 654 20							
Deduct (See Exhibit 2) Burlap, 45-inch (yards)		.10	101 60		.121	6 68							
Hop warp (pounds) Fleece twine (pounds)	38 20	.15 .15	5 70 3 00	}									
Jute waste (pounds) Matting, 18-inch (yards) Matting, 36-inch (yards)	58,234 728 235	.30	727 92 218 40		.30	93 70							
Deduct (See Exhibit 2)	50 185	.40	74 00	266	.45	119 70							
Totals			\$23,133 90	,	. '	\$16,743 98							

			1914 1916	\$23,133 90 16,743 98
De	crease duri	ing	period	\$6,389 92

Exhibit No. 6.

# MISCELLANEOUS JUTE MILL SUPPLIES, OCTOBER 1, 1914, TO SEPTEMBER 30, 1916.

	Quanti	t <b>y</b>	Price	Amount	Total
Parowax Giue Flour Spindle oil Tallow Jute oil	2,900 38,679 2,181.4 989	lbs. lbs. gals. lbs. gals.	.07 1-7	\$321 12 362 50 695 80 327 21 70 64 1,128 82	
Total.  Miscellaneous supplies Fuel Power Plant repairs Salaries Miscellaneous expense		• • • • • • • • • • • • • • • • • • • •		\$3,260 89 7,951 80 225 39 22,734 99	\$2,906 04 12,270 44
Total	5,187	bales			34,811 30 114,129 80 2,647 71
Total					\$166,765 4

#### Exhibit No. 7.

# MANUFACTURING COSTS OF JUTE PRODUCTS EXCLUSIVE OF PER CAPITA COST OF PRISONERS, OCTOBER 1, 1914, TO SEPTEMBER 30, 1916.

Expenditures—	1			
Fuel	\$3,2	60 89	I	
Power	7.9	<b>61 80</b>	i	
Plant repairs	2	25 39		
Salaries		34 99	į.	
Supplies	15.1	76 53	ı	
Miscellaneous expense	6	38 29		
Total			\$49,987	8
Raw jute consumed (5.187 bales)	1		114,129	8
Raw jute consumed (5,187 bales)		• • • • • •	2,647	7
TotalLess revenue derived from baled waste	l		\$166,765	40
Net total expenditures	l		<b>\$165.286</b>	- 50

Manufactured product, 1,928,814 pounds; unit cost per pound, \$0.0856.

# Exhibit No. 7A. .0856 PER POUND.

	Quantity	Weight	Unit Weight	Unit Cost
Grain bags Hop cloth, yards Burlap, yards Matting, 36-inch, yards Burlap warp	27,878 2,754 645	1,895,520 28,708 1,967 1,782 847	.7805 1.08 .71 2.762 1.	\$0.0668 .088 .0607 .236 .0656

#### Exhibit No. 8.

# STATEMENT OF ACTUAL COST OF INSTITUTION TO STATE, INCLUDING PER CAPITA COST, BASED ON JUTE FABRIC SALES AND MAINTENANCE APPROPRIATION, BIENNIUM SEPTEMBER 30, 1916.

Value of jute fabrics sold and remitted for	\$226,698 81 6,389 92
Actual value of fabrics manufactured.  Less manufacturing cost (See Exhibit 7)	\$220,308 89 165,286 56
Amount remitted to state above cost exclusive of maintenance of men and plant depreciation	\$55,017 33
MAINTENANCE EXPENDITURE FOR BIENNIUM	
Period ending March 31, 1915, 6 months	
Total expenditure from maintenance appropriation	\$247,841 52 55,017 83
Actual expenditure of institution, considering only maintenance appropriation and jute sales	\$192,324 19
Miscellaneous cash sales remitted	17,158 38
Actual cost of institution, considering maintenance appropriation and jute fabric sales, also including miscellaneous cash sales	\$175,165 81
Average number of inmates during period	

#### Exhibit No. 9.

# INMATES FUND, OCTOBER 1, 1914, TO SEPTEMBER 30, 1916.

Balance October 1, 1914	. \$1,859 78	
Balance October 1, 1914	21,874 44	\$20,266 85 \$ 467 85
Totals		

#### STATE TRAINING SCHOOL.

State Board of Control, Olympia, Washington.

GENTLEMEN: I have the pleasure to submit to you the report of the State Training School for the biennium October 1, 1914, to September 30, 1916.

The general condition of the school is very satisfactory. The shops are working every day, and put out a creditable amount of work, considering that all the work is done by boys, who have to be trained from the bottom up, while most of them are ready for parole when they are able to work independently. This means that the school as an institution does not aim to train the boys in order to profit by their labors, but tries to live up to the higher principle of making the boys fit to take care of themselves, also giving them an opportunity to reap the benefits of their training. In this way the school tries to accomplish the ultimate purpose of this institution—to change the inmate from a liability to an asset for the state.

The health conditions are very good. Outside of a cough epidemic during the winter of 1915-1916, no serious sickness has occurred. The hospital wards are in excellent condition, while the surgery, especially after a recent purchase of an adequate sterilizing outfit, is above reproach.

The squad buildings are antiquated and unsanitary; therefore unfit to meet modern requirements. The interior of the buildings has been kalsomined and painted during the last few months, and presents a clean and well-kept appearance. Considerable improvement has been made in the lavatories by installing more sanitary closets and repairing the showerbaths and washbasins.

Several minor repairs and improvements were made, including the entire rebuilding of the boiler, and partly relaying the foundation of the shoprow.

The light and water lines are in bad shape, and will need considerable repairing in the near future.

A great improvement to the school is the new storeroom, built entirely by the boys. It is a one-story concrete structure, and is a credit to the institution. All the stores, which were before scattered over the place, are now under one roof, thus facilitating a proper distribution and enabling the administration at the same time to supervise the daily issue in an efficient way.

The dairy herd was considerably improved by the purchase of some high class Holstein Friesian cows and a thoroughbred Holstein bull. During the past three months, practically all the meat consumed was raised on the farm.

Where the butter bill formerly amounted to about one hundred dollars per month, at the present time the school, by an agreement with the local creamery, not only makes its own butter, but also supplies the State School for Girls at Grand Mound.

The piggery is in fine shape, and the swine herd has proved to be a valuable asset.

The farm produced sufficient food for man and beast, and although the potato crop was not as large as was expected, there are enough potatoes to last until spring, especially as same are supplemented by a row of barrels, containing sauerkraut and pickled beans.

The present administration thought it wise to make a change in the school schedule. During the first year of this blennium the boys went to school one week, and worked in the shops the other week, the school hours being from 7:30 to 11:30 and 12:30 to 1:30, which means five hours school a day, or, as Saturday is a vacation day, 25 hours school every two weeks. At the present time the school hours run from 7:30 to 11:30 and 12:30 to 4:30, giving 40 hours school every two weeks. Every boy goes to school four hours daily, either in the morning or in the afternoon, while the other half of the day he works in the shops or on the farm. This arrangement keeps his mind focused on work and school, and gives better results than the week-about system.

Efforts are being made to help the boys understand that the Stat Training School is not a penal institution in the regular sense of the word. Except for strictly administrative purposes, the administration does not indicate a boy by his number, but encourages the use of the first name. The old dungeons are torn out and the strap is abolished In place of these antiquated means of correction, we have now a meditation room, where the offender is left to himself after an interview with the superintendent. For the smaller offenses the boys are deprived of the moving picture show or their play hours. The boys are spond readily to this more humane treatment.

The BOYS' CONGRESS, or a limited self-government plan. is operation, and although the boys have to be educated to this point. We do not doubt but that in the end this will prove the one important item in teaching them self-control, and will aid them in assuming responsibility.

The honor system is strictly maintained, and as the honor squared consists of boys who have proved themselves trustworthy, the administration has taken advantage of this by placing the smaller boys from 8 to 10 years under the care of these honor boys, thus eliminating the danger of possible contamination from the few incorrigibles.

We have asked for a special appropriation of \$100,000 for the building of two cottages containing room for 48 boys each. These cottages are absolutely necessary in order to keep the younger, and all the more advanced boys, separated from the really incorrigible. Some we believe that after a proper segregation of the boys the good of the school will be more than ever guaranteed. For the proper equipment and furnishings for these cottages we have asked for \$10.000, a amount which we think reasonable.

We have also asked for an appropriation of \$20,000 for a gymsium, which is one of the urgent needs of the school. The boys, en numbering from 80 to 100 in each squad, have to be crowded ether during bad weather in playrooms which are entirely unfit for s purpose, and we are satisfied, after an examination of the condins of these playrooms, none will deny not only the desirability, but absolute necessity of an up-to-date gymnasium.

For the clearing of fifty acres of stump land we have asked for 000, and as this land is the best which the school has, we believe expense amply justified it.

On account of the land being very low and wet, however, we have sed for an appropriation of \$2,000 for draining it efficiently.

# STIMATED VALUE OF THE WORK OF THE DEPARTMENTS FOR THE BIENNIUM ENDING SEPT. 30, 1916.

Machine shop	\$5.813	92
Carpenter shop	6,667	12
Shoe shop	3,761	94
Tailor shop	4,337	27
Farm	11,171	64
Laundry	3,748	43
Ice plant	589	<b>5</b> 0
Total	36,091	82

#### COMMITMENT BY COUNTIES-1914-1916.

	(1)	.11 .71				••	•	•		•	٠.	•	•	•	•	• •	13	<b>.</b>		.,	•	•	•	U		٠.				
Asotin .																														1
Chelan	<b></b> .																													1
Chehalis																														2
Clallam																														1
Clarke .																											٠.			3
Columbia	а																													2
Cowlitz																٠.														1
Ferry .																														2
Garfield													٠.																	1
Grant																														2
Grays H	arbo	r.																٠.												6
Jefferson	٠																													2
King .																														40
Kitsap .																														8
Kittitas																														2
Lewis .	<b>.</b>																													17
Lincoln																														3
Mason .			٠.																											2
Pierce .																٠.														45
Skagit .																														9
Snohomi:	sh .																													21
Spokane																														40
Stevens																														5
Thurston	٠																													3
Wahkiak	um																													1
Walla W	alla			٠.																										9
Whatcom	١																													22
Whitman	٠															٠.														5
Yakima		. <b></b>														٠.														9
75	otal.																													265
1	OTAL.		٠.	• •	•	٠.	•	• •	٠	•	٠.	٠	• •	٠	•	٠.	٠	٠.	٠	•	•	٠			٠	٠	٠.	•	٠	±().)

•	Biennium	During Biennium
Boys at the first of	188	• • • •
New boys received		265
Boys returned from parole		68
Boys returned from escape		44
Boys paroled		297
Boys discharged		44
Boys escaped		89
Boys transferred		8
Boys died		1
Boys at the end of	125	

Respectfully submitted, GEO. A. SHEAFE,

L

Superintenden

# REPORT OF PAROLE OFFICER OF STATE TRAINING SCHOOL.

State Board of Control, Olympia, Washington.

Gentlemen: When I took up the work of Parole Officer for the State Training School for Boys on September 1st, 1915, I was in structed by you to pay particular attention to the parole work. I have endeavored to the best of my ability to do so, and submit herewisely report of what I have been able to accomplish since that time up September 30, 1916.

By reference to the superintendent's report you will observe th 297 boys were paroled during the biennium, and that 68 were returned from parole during the same length of time. This would appear to rather a high percentage, but it must be borne in mind that a part those returned from parole during the biennium had been paroled pri to October 1st, 1914, and also, that a part of those who returned did voluntarily.

When I took charge of the work as Parole Officer I immediate made a list of the boys on parole and arranged them according counties. No such system had been used prior to that time and I fit a great convenience in checking up the boys who are out.

Since September 1st, 1915, 172 boys have been paroled; 107 of the went home to parents or relatives, and 51 went out to work on farm and in other lines of employment which we have been able to secut for them. In addition to this, we were able to place 14 orphan and dependent boys in new homes, under surroundings which give them apportunity to develop into useful citizens. Several of these boys here in the school for periods ranging from two to four years, at their delight at being released was worth all the effort required bring it about. You will note that, of the boys paroled since September 1975 and 1975 and 1975 are several of these boys here.

st, 1915, approximately 38 per cent. went to homes and jobs which the secured for them, either directly or indirectly, through the efforts of this department. I am pleased to report that at the present the we have a waiting list of applicants—in other words, more calls or boys to work at useful occupations and to come to homes where they will be welcomed and treated as members of the family, than the are able to fill.

In my work as parole officer, I have been impressed particularly ith one thing, and that is, that the State has not made proper prosision for visiting and checking up the boys who are out on parole. So much of the time of the parole officer is taken up as a traveling that, going for boys who have been committed and for those who have escaped and been captured. I have found it impossible to mark that a parole trip for myself with the assurance that I can follow out my plans, for the reason that frequently I have no more than started and investigation than I am called to go to a distant part of the late and bring to the school a boy who has been committed.

According to our records, we have now on parole, within the State Washington, 299 boys of all ages, characters and dispositions, and he list is constantly increasing. In order to pay proper attention to hese boys, so that they may know that the school is yet "keeping tab" pon their conduct and still has an interest in them, the parole of her should be relieved of other work. Besides, visiting paroles is but he feature of the work. Every application for a boy to work, or to hater a home, should be thoroughly investigated in advance of the arole, but under the present system it is impossible to find time for his work. In my judgment, it is most important that every boy sent from the school be made to understand that his conduct is being atched, and also that the school authorities are his friends, interested his welfare and willing to help him in any possible way.

For the above reasons I recommend that the parole officer be peritted to attend to his work unhindered and unhampered by calls to et as a traveling guard. Surely society, which places these boys in the raining School, for the protection of itself and the advantage of the by, has not done its full duty until and unless it has provided a workble parole system which will be both a benefit and an encouragement to the boy after he has gone out into the world to take his place bede the more fortunate lads who have friends and relatives to assist them.

Respectfully submitted,
O. J. SAVILLE,

Parole Officer.

#### STATE SCHOOL FOR GIRLS.

To the Honorable State Board of Control:

Gentlemen: It is with pleasure I submit to you the first biennia report of the State School for Girls, for the period beginning Decembe 22, 1914, and ending September 30, 1916.

I received my appointment November 1st, and assumed the duties of superintendent December 14th, when in company with my officers and eight girls from the old school we took possession of our two new buildings. The balance of the girls, making 52 in all, came December 22nd.

Realizing we must have just the harmony among the officials we desire among the girls, this has always been maintained. Believing every girl would rather be a nice girl than not a nice girl, if properly directed, it has been the aim to keep them so occupied with either work or play—and at the same time so interested and happy—there would be no time for anything else.

Our first problem was the cleaning of the buildings and clearing away the debris from around the outside. There was much sewing to be done—all the girls needed complete outfitting. We had no table or bed linens made up—the first week we slept in unhemmed sheets and on our tables used cloths in the same unfinished state.

In the long evenings around the living room fires, by reading talking and singing—while the girls crocheted, embroidered, etc., we made them know we refused to think of, or believe in the past and entertained only the greatest hopes for their futures, knowing they could make them what they would; that they were not here for punish ment, but because they needed our help—and this was to be thought of as their home until they were twenty-one—even though they might be out on parole.

The girls reflected our interest and enthusiasm and as a result the amount of work turned off astonished us all. Following are some of the improvements:

Pruned and sprayed two old orchards from which we have received barrels of fruit.

Took down and cleared away a number of old sheds, buildings and fences.

Planted 250 Holland holly-bearing hollies along main road which we expect in a few years will be income producing.

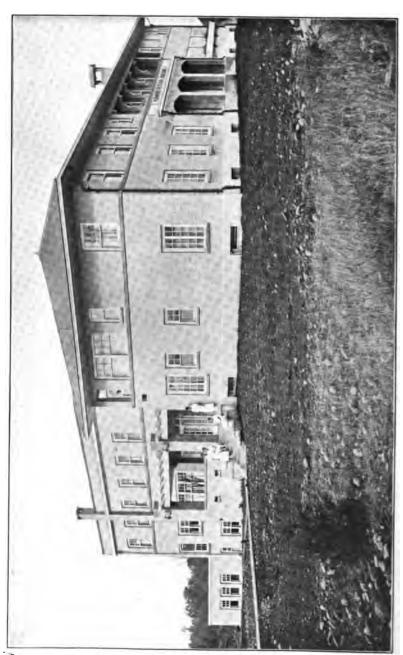
Planted several hundred fruit and nut trees.

Planted asparagus, rhubarb and strawberry beds.

Picked up many wagon loads of sticks on the newly cleared land Enough potatoes were raised for last winter.

Over 25 tons have been put in the root house for this winter.







All forage crops used have been raised by the girls.

These and other farm products have totaled \$3,990.72.

Built five temporary bridges that are washed out every winter by the high waters.

Built concrete curb at spring from which we receive all our water supply.

Constructed several miles of pasture fencing.

Constructed several miles of roadways.

Planted and cultivated from 12 to 15 acres of garden.

Made over interior of old barn to be used temporarily for cows, horses, calves, pigs, pigeons, rabbits and for storing root crop, for stock, hay, feed, etc.

Built new administration building.

Built temporary rough plank walk connecting administration building with other cottages.

Girls built waterfall in court of administration building, using clinkers dipped in liquid concrete.

Have raised all our turkeys for this year.

Have three barrels of cucumber pickles and two barrels of pickled beans, raised and made by the girls.

147 quarts of fancy pickles raised and put up by the girls.

879 quarts of fruit picked and put up by the girls.

340 quarts of vegetables canned by the girls.

80 pounds home dried corn.

40 pounds home dried prunes.

6 wagon loads of squashes and pumpkins.

From our gardens we have had all kinds of fresh vegetables in abundance, as shown by "Farm Report," which follows.

We have occupied our new administration building for two months. Twenty-four honor girls came with us and I am pround to say we have never had a door locked in this building. It is the plan to receive entering girls in this building for a short time that we may come in closer touch with them and that they may receive inspiration from the honor girls.

All this time our enrollment has steadily increased until now our number is 98, even after having paroled 39, whereas our legal enrollment, including the three buildings should be 84.

In the table showing movement of population, ten out of the 39 are shown as having been returned from parole, who were paroled from this school. Only five of our number violated their parole, and others having returned for other reasons or for short time only. I feel we are largely to blame for these failures. In some cases we were influenced to try them on parole because of new ones waiting to enter, and for whom we had no room. In other cases we were over-persuaded to let them go before we felt they had found themselves anew.

The girls by their co-operation have helped us create an atmosphere in which it is easier to do right than wrong—and there has been a joy manifested in all the work which has robbed it of any seemi drudgery.

Occasionally some run away—they do from good homes. Almoinvariably they are grateful to be back. We have never lost any.

Two of our girls have been married from the school to fine you men they knew before coming here. Many of the girls have desiral suitors, which is not surprising, as they are most attractive. The saf force which undirected, carried them too far one way, when controll and rightly directed, makes of them unusually capable and attractive young women.

One who had been on parole for a year was married here a we ago, having asked to come "Home" to be married. At these times we give them the daintiest, prettiest wedding possible—which is deep appreciated by all the girls.

We have been greatly handicapped because of no schoolroom a commodations. However, we are hoping for a new school building ne year, and in the meantime expect to have a portable one which we a looking for daily.

Last year we used the domestic science rooms on alternate day but owing to our increased numbers this is no longer possible. Vere also starting high school work this year as we have 26 girls read for it. We mean to make this a two-year accredited course.

Our beautiful piano presented by the Mothers' Congress and Pare Teachers Association has been much appreciated by the girls in Park Moore Cottage. One was brought from the old school for Granger Ha Several of the girls take private lessons for which their people a glad to pay.

Each cottage also has a Victor talking machine, the gift of Mr. a Mrs. E. C. Blanchard of the Northern Pacific.

A dozen beautiful little songsters have also been a gift from M Blanchard.

Mrs. R. S. Fringer of Seattle started the girls with the ukule Since then several of the girls have their own. Two have guitars.

We hope before many months to have a piano for the administration building.

The Seattle Park Board, through their superintendent, Mr. J. V. Thompson, presented the school with over a carload of trees and shru for border plantations. Their chief engineer, Mr. H. L. McGillis, la out our main driveways, all of which we all appreciate.

I wish to thank the members of our State Board of Control f their hearty co-operation and support at all times, and for their pressed appreciation which has been a continual incentive to us all.

Most respectfully submitted.

MARY CAMPBELL, Superintendent.

### MOVEMENT OF POPULATION BY COUNTIES.

COUNTIES	Received by Transfer from Training School	Received by Commitment.	Received by Return from Parole	Received by Return from Escape	Discharged	Paroled	Transferred	Died	Escaped	Present in Institution September 30, 1916
Benton Chelan Charke Perry Grays Harbor King Kitsap Kitstas Lewis Lineoin Pacific Pierce Skagit Snohomish Spokane Thurston Walla Walla Whateom Wakiman Yakima	1 2 2 7 1 1 1 1 6 6 5 1 1 2 8 2 8	1 8 7 21 2 12 1 5 9 3 1 4 1 6	1 2 2 1 4 1 1	1 2 1 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 3 1 1 1 1 4 5 7 1 1 1 2 3 8	1	1	1 2 1 2 1 2 1 2 1 2 1 2 1 2	1 1 3 6 24 15 3 7 10 4 2 8 1 7
Totals	52	80	16	14	6	39	4	1	14	98

# Movement of Population of Paroled Girls.

Girls on parole at date of transfer from Training School, Dec. 22, 1914.  Paroled during present blennium	93 39
Returned from parole	•
Discharged from parole, of age	
Total	132

# Ages of Girls Present in Institution September 30, 1916.

Eleven .																																									
Twelve																																									
Thirteen																																									
Fourteen																																									
Fifteen																																									1
Sixteen		-	-	•	-				-	•	-	•	•	•	•	•	•	•	•	-	•	•	•	•	-	-	-	-		_	-	-	•	•	•	_	-		-	-	
Se venteer	_	-	-	-	-	-			-	•	-		•	-	•	•						_		-	-	_	-	_	•	-	-	-	•	•		-	-		-	-	_
Eighteen																																									
Nineteen		٠	•	•	•	•	•	•	•																								•							•	1
T	ot		ı			_	_	_													_		_	_	_													_	_		9

Average age of girls in institution, 16 plus.

Table Showing Causes of Commitment.

Delinquency .....

78

	Delinquency Dependency		
	Total	9	8
Tab	le Showing Social Condition of Girls Prese	nt in Instit	ution.
Lost pare	nt by death		4
Lost pare	nt by separation or divorce		2
To	tal		8
	Statement of Inmates' Fund.		
Money in	fund at date of transfer from State Training	800.10	
Bookred	during biennium	\$20 12 903 37	
	during biennium		\$871 2
	n fund September 30, 1916		54 2
			2005 4
Tot	al	\$925 49	<b>\$925 4</b>
	Statement of Parole Fund.		
	ed February 1, 1916, with deposit of	<b>\$</b> 3 00	
	during balance of biennium	149 39	
	n fund September 30, 1916		\$152 3
To	otal	\$152 39	\$152 3
	Chahamant of Missellanesus Francis		
1915	Statement of Miscellaneous Fur RECEIPTS	ıa.	
July 1			<b>\$</b> 2 1
July 30	Standard Oil Co., check for 25 lbs. Zero grease Collections on girls' dental account		4 0
Aug. 31	Collections on girls' dental account		40 3
Sept. 30	Collections on girls' dental account		31 1
Nov. 22	County of Ferry, refund account mileage used in tion of witness	transporta-	59 1
Nov. 26	Eva Wilmarth, refund transportation Grand M	lound to Se-	
	attle		2 7
Nov. 30	Bertha Miller, refund transportation Grand Moingham		5 7
1916	•		- 1
Jan. 1	Harriet Wright, refund mileage pulled Tacom	a to Grand	
T 1	Mound, December 24, 1915		1 6
Jan. 1 Jan. 31	Laura MacMillan, refund of salary, Dec. 1 to E Edith Clarke, refund transportation Grand		17 4
van. or	North Yakima	мочна с	7 5
Jan. 31	Alma Schott, refund transportation Grand Mour	nd to Seattle	2 8
Mch. 31	Mrs. F. Playman, refund mileage pulled round Mound to Auburn	trip Grand	4 5
Apr. 30	Collections on girls' dental account		35 50
May 31	Collections on girls' dental account		20 23
June 30	Collections on girls' dental account		8 00
July 31	Collections on girls' dental account		3 50
Sept. 30	N. P. Ry., refund on freight paid transports cows, Olympia to Grand Mound	tion of two	2 45
m	otal		\$248 83

### Statement of Miscellaneous Fund-Continued.

#### DISBURSEMENTS

lug.	10	Remitted	to	State	Treasurer	<b>\$</b> 6	15
Sept.	10	Remitted	to	State	Treasurer	40	31
Oct.	10	Remitted	to	State	Treasurer	31	19
Dec.	10	Remitted	to	State	Treasurer	67	51
eb.	10	Remitted	to	State	Treasurer	29	44
pr.	10	Remitted	to	State	Treasurer	4	53
lay	10	Remitted	to	State	Treasurer	35	50
une	10	Remitted	to	State	Treasurer	20	25
uly	10	Remitted	to	State	Treasurer	8	00
ug.	10	Remitted	to	State	Treasurer	3	50
ept.	30	Remitted	to	State	Treasurer	2	45
	To	tal				\$248	83

#### FARM REPORT.

# for Period Commencing March 1, 1915, and Ending September 30, 1916.

COMMODITY	Unit	Quantity	Value
eans, string		2,777	\$79 82
leets	. Lbs	2,692	61 95
Seet greens	Crates	67	20 05
russels sprouts	. Lbs	42	3 36
Seans, white	Lbs	111	6 99
ucumbers, table	. Doz	221	95 17
ucumber pickles	. Orates	18	50 41
orn, green	Doz. ears.	1,021	153 70
Caulflower	Lbs	70	1 40
abbage	Lbs	7,896	99 64
Carrots	Lbs	3,060	29 83
		578	10 78
ettuce Onions, green		119 <b>(</b>	40 55 45 18
otatoes		28,409	364 80
cas, green		2,109	85 41
umpkin		2,700	1 02
arsnips		1.012	10 12
adishes		157	38 32
hubarb		i	30
utabaga	Lbs	1,631	16 31
quash		502	11 84
wiss chard		469	88 23
omatoes, ripe		188	16 65
omatoes, green		1.400	25 00
urnips		300	4 65
Total garden products	.		\$1,306 43
trawberries	Orates	72	<b>8</b> 77 22
runes		795	88 29
ears		518	57 42
ellow plums		64	4 82
berries	Orates	28	28 00
Total value fruit			<b>\$200</b> 75
arley	Tone	3.6	\$132 19
ata		5111	201 71
heat		7.7	816 05
eteh		570	45 60
at hay		52	867 00
lover and grass hay		12	216 00
Total value forage crops	.	l	\$1,778 55

# Farm Report-Continued.

COMMODITY	Unit	Quantity	Value
Milk* Eggst Chicken meat Squab Rabbit meat Total value dairy and poultry departments.	Dog Lbs Lbs	3845 1965 1 2511	\$525 82 95 29 38 15 3 50 42 23

### SUMMARY.

Garden products Pruit Forage and grain. Dairy and poultry products.	200 1,778	75 55
Total value farm products	\$8,990	72

^{*}February, 1916. †March, 1916.

# WASHINGTON STATE REFORMATORY

# Fifth Biennial Report

OF THE

# **BOARD OF MANAGERS**

For the Period Ending September 30th, 1916



Monroe, Washington 1916



# BOARD OF MANAGERS.

HENRY R. KING, President	Seattle
F. F. SWALE, Vice-President	Everett
T. E. SKAGGS, Secretary	Olympia
FRANK C. MORSE	Olympia
W. H. COCHBAN	Olympia
STATUTORY OFFICERS	3.
DONALD B. OLSON	Superintendent
DONALD B. OLSON	•

To His Excellency the Governor and the Senate and House of Resentatives of the State of Washington.

MONROE, WASHINGTON, September 30, 1916.

GENTLEMEN: The Fifth Biennial Report of the Board of Manage of the Washington State Reformatory for the period beginning Octo 1, 1914, and ending September 30, 1916, is herewith respectfully smitted.

HENRY R. KING, President.

F. F. SWALE, Vice-President.
T. E. SKAGGS, Secretary.
FRANK C. MORSE.

W. H. COCHRAN.

# WASHINGTON STATE REFORMATORY.

SEATTLE, September 30, 1916.

Excellency, Governor Ernest Lister, Olympia, Washington.

SIR: The Board of Managers of the Washington State Reformay herewith present their report of the conduct of the affairs of the titution for the biennium ending September 30, 1916.

The regular monthly meetings of the board have been supplemented many visits to the institution made by individual members.

We have kept constantly in mind your request that we exercise the st careful supervision of the operating and upkeep cost of the instition, to the end that every dollar possible should be saved the taxters of the state. This has been accomplished largely by stimulative the imagination, arousing the ambition, and awakening in both cers and inmates a spirit of co-operation and a real desire to render state a valuable service. The reaction has advanced the real work the institution, the reforming of the lives of the men sent to us.

One of the most urgent needs of the institution is a pure and adeate water supply. There should be no further delay in this matter the health of the population is to be conserved and the state's propy given the necessary fire protection.

A searching investigation for possible sources of supply has been de and under the direction of Mr. R. H. Thomson, C. E., of Seattle, on his report containing full engineering data showing the entire sibility of the Lake Fontal project, we have based our recommendant for an appropriation of \$80,000, to insure for all time, an ample oply of water for this institution.

The physical side of the institution is in a most flattering condin. The operations on the farm and in clearing the land and prepartit for crops, while interfered with somewhat by the long drawn out my weather of the past season, has gone forward steadily, showing a results. We are encouraging the inmates in every possible way to cose farming as a life work. No finer thing could be done for this stitution than to arrange for the State Agricultural College to establish here an experimental farm, so that these boys and young mental have the training that would enable them to go out to a life of gest usefulness, qualified to aid in the developing of the state's greatindustry. We earnestly recommend this suggestion for your most coughtful consideration for we firmly believe that the greater the phasis laid upon the educational and vocational work now being card on and planned for the future by this institution the more profitted and satisfactory will be the results obtained.

It affords us the keenest delight to be able to report that the nnium has shown a marked increase of interest on the part of all inected with the work. Each department has made an honest effort

to do constructive work in the rehabilitation of the men, and worked consistently and harmoniously to carry out the wishes of board.

The inmates have responded nobly and you have only to look their eager, expectant faces to realize that a great change has wrought here, ambition has been aroused, hopes quickened, and as sured faith in the purposes of the state to aid them in every way is for their best good has been created.

The superintendent and his force of faithful coworkers deserve stinted praise for this notable forward movement in the real workers reformation.

We trust that you will give the superintendent's and the dependent reports careful scrutiny. You will find them interesting instructive in the detail work of this institution, which deserve large place in the confidence and sustaining influence of the taxpay of the State of Washington.

We have the honor to be,

Yours very respectfully,

H. R. KING.

President Board of Managers.

# SUPERINTENDENT'S REPORT.

To the Honorable Board of Managers Washington State Reformation

Gentlemen: I have the honor to present herewith my report the Washington State Reformatory for the two years ending Septe 30, 1916. This report includes a complete statement of the act ties of the institution and an outline of the proposed work for ensuing biennium; together with the estimated cost of the same. He with, also, is transmitted the necessary statistical information and ports of the several departments of the institution.

The reformatory had a remainder in its funds at the close of last biennium amounting to \$91,738.82; it received at the hands of legislature of 1915, the sum of \$290,500.00, making a total of \$328.82. From the previous appropriation there was expended the s of \$77,907.10, permitting the reversion to the state of \$13,181.72 s there has been disbursed from the current available funds the sum \$192,525.10, with a present remainder of \$97,974.90. The total expentions for the period have amounted to \$270,432.20.

#### BUILDINGS.

Main Building.—As anticipated in the last annual report, the m building, comprising the rotunda, or central office of the institution, the north half of the cell block, was ready for occupancy on the 5th

cember, 1914. This building has provided sanitary sleeping and livg quarters for the inmates and has aided materially in caring for em properly. With the close of the fiscal biennium, there was still me work of a finishing nature to be done, but now this has been mpleted. The entire building has been painted and equipped for e. The rotunda contains the central gate which operates electrically e doors leading into the institution from the administration building to the cell block: an interview room where inmates may be interewed by institution officials, officers' barber shop, and remote control vitchboard, which is operated from the same desk as are the doors; re, also, inmates may visit with friends or relatives. The cell block ntains 320 cells, each with individual lavatory and toilet equipment, ated and ventilated by the hot air system. The ventilation is exllent in that one set of fans force the fresh air into the building and second set draws the bad air therefrom and discharges it into the en. Each cell is furnished with a cot, locker, table and stool; the ekers and tables having been made in the institution by inmate labor. e material is on hand for the stools.

Shop Building.—During the previous biennium, we completed a op building but were without machinery; the last legislature approiated \$4,000.00 for the purchase and installation of wood and iron orking machinery and with what is already in place and that which ordered, the entire equipment consists of:

Installed—One emery grinder, with motor; one 32-inch band saw, th motor; one 8-inch Sidney jointer, with motor; one No. 2 Sidney w table, with motor; one 24x8 Sidney S. surfacer, with motor; one x6 power grind stone, with motor.

Ordered—One 23-inch sliding head drill press; one 16-inch swing, M. lathe, with motor; one Robertson No. 3 high speed hack saw; e Crescent S. S. shaper, with motor.

Wall.—Under the appropriation of 1913, the foundation of the perment wall of concrete was laid on two sides and the legislature of 15 was asked to provide funds for its completion, but this was dered. However, the present wall was straightened and rebuilt just tside the line of the permanent wall. This change permitted the use a smaller force of guards and materially improved the appearance the plant. At the same time these improvements were made, the all was removed from the front of the institution. This permits free deay access to the administration building by the public.

Storehouse.—The appropriation for this purpose has been nearly pended in the construction of a brick and reinforced concrete storewas, similar in design and construction to the building already in use a shop building; this will permit the use of the latter building entely for shop purposes. Up to this time the upper floor has been ocpied by the stores department.

#### IMPROVEMENTS.

Farm Equipment and Stock.—The herd of milch cows is slowly increasing and the production of milk is sufficient to supply the institution. The herd has been subjected to tuberculin tests and with ferexceptions have been found free from taint; those that reacted to the test, three in number, were promptly removed from the herd and kills Milk provides one of the healthiest and at the same time most who some articles of diet that can be provided for the men; with a lark herd of milch cows, not only can an ample supply of milk be provided but we also expect to manufacture butter and cheese, both of whi will aid materially in decreasing the per capita cost of maintenance.

The swine have increased in numbers and value considerably, the same time furnishing the institution with an ample supply of fre pork. We soon hope to arrive at the stage where we can furnish nonly our fresh pork, but ham, bacon, and salt pork as well. Before t end of the fiscal period we expect to have permanent, sanitary piggeric constructed which will provide additional facilities to take care of t natural increase.

The poultry has, perhaps, had the greatest development during the same period; we have increased the poultry by the purchase of got stock from the Western Experimental Station of the State College, the principal breed being White Leghorn. Modern sanitary laying house and colony houses have been constructed and the poultry division points a high state of efficiency.

The plant division has been extended as rapidly as new land we available. Crops of berries, prunes, apples and other fruits; tomatocorn, beans, peas, and the principal root vegetables have been raise this season and provide a diet for the men really better than meats.

In all these divisions, progress has been made, but all may be a vanced further in their efficiency, and for this purpose additional fundare requested as hereinafter listed in the appropriations.

Installation of Oil Burning System.—The appropriation for the installation of an oil burning system in the heating and power plant has been deferred. At the present time, the cost of slab wood is less that oil and we believe this condition will prevail for some years to come and, all things being equal, we believe Washington industries shoul have the preference. It was considered inexpedient to make such change.

General Repairs and Improvements.—With the funds available under this title, we have painted all the buildings, repaired the roofs, and made other necessary improvements. The largest single improvement was that made in the inmates' kitchen, where a tile floor was laid, and a general overhauling and rearrangement of fected, increasing not only the convenience of the kitchen, but making for a more sanitary place for the preparation of the inmate food.

Clearing Land.—About one-half of the appropriation for this purse has been expended for clearing the institution property of timber, umpage, roots, etc. When the institution was established, the entire ate property, except what is now the state orchard, was uncleared, it is clearing was deemed so important that a special appropriation as requested of the last legislature for this purpose. With this, the ork has progressed more rapidly than before, there being about ninety tree cleared, thirty of which have been put into cultivation and the mainder being ready for the final working to put it into a tillable ate.

Waterworks.—Three different explorations have been made with a ew to selecting a suitable site for a water source, the entire expense which will not cost one-tenth of the appropriation granted by the gislature of 1915. At the time the previous report was made, we had explored the boring of three shafts in an effort to establish a local extem wholly within the institution bounds, but, failing in that, we equested and secured an appropriation specially for a water system. Propose and shed was to be obtained at Lake Fontal and engineers have seen employed to prepare plans and specifications, and to estimate the less of the work which is set forth in the section of this report covering the needs of the institution.

Sewers.—The institution required additional drainage and trunk nes to the Skykomish river, accordingly this appropriation was rejected two years ago and obtained. With this fund we have concructed drainage lines from the yard of the main enclosure, the laungrand other buildings. We have also dug a ditch connecting the farm rainage system with one of the laterals of the Grand Marsh drainage strict project of Snohomish county; this ditch is over a mile in night, five feet deep, and was dug entirely by inmate labor under the opervision of an officer.

Sidewalks.—A cement sidewalk has been laid connecting the doestic building with the power house and shops; walks have been laid etween the shops now built and also in rear of them and the power cuse. This is an improvement that was greatly needed and one which rovides dry access to and between the buildings named.

Duplicate Lighting System.—The mechanical alternate equipment be used in case of a local shutdown has been found unnecessary and its appropriation remains intact. However, it should not be consumed with that which is requested for the purpose of extending the witchboard and segregating the light and power lines in the tunnel hich carry current to the buildings not adjacent to the power house.

#### INDUSTRIES.

Perhaps of first importance is the manufacture by the institution its own electric energy; this is done in the local power plant, conected with the various departments and buildings by a tunnel. Both

light for the entire institution and power with which to operate to automatic doors, ventilating fans, shop machinery, kitchen equipment farm machinery, etc., is furnished. After the steam has passed through the engines, it passes into lines which take it through the various buildings where it is utilized as heat and also in cooking.

In connection with the power house should be mentioned our problem of fuel. It appears that wood is the cheapest fuel, though delivery to the firebox constitutes a problem that involves consideral thought and some anxiety in the winter months. All of the woburned is purchased from nearby mills. Owing to the distance betwee the institution and the railroad, its transportation to the power how involves the use continually of a truck, making several trips each dathe paving of the county road from the institution to Monroe he facilitated this somewhat, but this item is one of continual expense.

Training and experience in many varied industries is to be hin the institution. Among the vocations are auto driving and repaing, baking, barbering, bricklaying, butchering, carpentry, and wo working, clerical, construction of all kinds, decorating, electrical, stionary engineering, farming in all its branches, glazing, harness maing, hospital work, general kitchen work, laundering, land clearly mattress making, music (band and orchestra), painting, photograph plumbing, printing, saw filing, shoe repairing, steam fitting, stend raphy, tailoring, teaching, typewriting, and many branches of commitation.

#### EDUCATIONAL.

Under the supervision of a civilian director, inmates who have he the advantage of higher education conduct school for those men we come to the institution, in many cases without even the essential ruments of education, and though most of the men are here little long than a year, those who require it can leave the institution better fitted for a life's struggle than when they were admitted. Perhaps the greets cause of delinquency and wrongdoing lies in the absence of education, and while in most cases committed to the reformatory the meare at an age when school does not appeal to them, nevertheless greegood can be accomplished. It is readily to be observed that the high educational qualifications result inversely in the number of men committed.

#### LIBRARY.

The institution, under the direction of the chaplain, has by mea of the funds granted it by the last legislature and through the go offices of the woman's clubs of the State of Washington, increased facilities for aiding the men not only in passing the time that can be spent in industrial or vocational pursuits, but also in study a helpful reading. Much of the time necessarily spent by the men their cells is devoted to the reading of wholesome books and magasin of which we have a generous supply from the people and organization throughout the state. Such contributions have helped mightly to

ood spirit that has been prevalent during the last two years. We gain are asking for an appropriation to further this work and its vailability will be a material aid in rehabilitating the charges of the ate and making them into useful citizens.

#### RELIGIOUS AND MORAL INSTRUCTION.

Too great importance cannot attach to proper religious and moral struction as an influence for good in the lives of the men, who have ten been entirely without this uplifting guidance. A Congregational dinister in residence at the reformatory is principally in charge of his work. He is assisted by a visiting priest of the Roman Catholic nurch, a minister of the Christian Science faith, and visiting ministers of other denominations and faiths, none of whom are denied services, to the least good in these different services is the impression made pon the men of the generality of spiritual life, though it may take different forms and be expressed in different creeds. Beyond the general services thus conducted the personal contact of those consecrated to the religious life with the men afford them a new vision and contact of life.

#### HEALTH CONDITIONS.

Unusually good have been the health and sanitary conditions of the institution and its population, as testified by the reports of the atending physician. Several physicians have visited the institution and endered gratuitous services to inmates in need of unusual surgical atention, which could best be given by the specialists; especially has this een the case with eye, ear and nose trouble. A majority of the men oming into the institution are physically unsound and require medical attention, in many instances of a serious nature. Since the enactment of the federal drug law, known as the Harrison act, there has een a noticeable decrease in the number of drug users admitted and the enactment in the state of a law curtailing the activities of the iquor traffic has also made its influence felt, perhaps most noticeably, owever, in the matter of admissions, in which there has been a decided ecrease.

#### DEPARTMENTS.

The various departments of the institution have united in an effort or ealize a state of high efficiency in their several lines of work, the letails of which are specifically set forth in their individual reports sereto attached.

#### REFORMATORY METHODS.

As the principal object of the reformatory is clearly expressed in its name, so the work of the institution has been directed mainly to he reformative rather than penal features of the work. The greatest actor in work of this kind is to maintain conditions as nearly as possible normal, as that breaks up the tendency to institutionalize its subjects and better fits them to resume the right place in society, when hey find themselves free men.

I trust you will find in the various reports of the chiefs of of partments, information tending to show that there is an earnest as conscientious desire upon the part of all men connected with the is stitution to build up the charges placed in our care, physically as mentally, in order that they may leave here cleaned up in body as mind; and that the tables furnished herewith show good results. The percentage of men making good is very gratifying. The spirit of the inmate population is greatly improved in the past eighteen months as today, anyone may note, as they mingle with the men a feeling of serespect and general desire to live up to the requirements.

These improved conditions are brought about by the officers at inmates working together in a frank, honest way for the best interest of all.

I gratefully acknowledge the assistance and cordial co-operation your Honorable Board of Managers, individually and as a board. You have continually inspired and encouraged all of us. I wish at this tit to express my appreciation of the efforts and spirit of every man egaged in the work of conducting the affairs of the institution. We also grateful to the federated woman's clubs of this state for go books and magazines. They have made our problem of supplying the men with good reading matter their own, and have faithfully sethroughout the year boxes of reading matter. Many other men as women have spoken to our men and have shown a great desire to help

Space will not permit the mention of all the favors we have received, but special mention should be given the woman's federate clubs, professors of our state university, ministers of the gospel of denominations. I believe the future looks brighter than ever befor the upbuilding of human interests in all its phases.

This report, with all the others, is respectfully submitted.

Donald B. Olson.

Superintendent.

#### INMATES SPECIAL FUND ACCOUNT.

#### SUMMARY STATEMENT

Year Ending September 30	11	915	191	.6
Balance October 1. Received Expended Balance September 30. Totals	\$2,148 06 645 23		\$1,818 40 619 47 \$2,437 87	\$645 1,792

### REPORT OF TAILOR SHOP.

### MARKET VALUE OF MANUFACTURED GOODS.

MONTH	Year Ending September 30, 1915	Year Ending September 30, 1916
ctober	\$875 95	\$256 27
ovember	857 62	180 80
ecember	417 14	254 53
anuary	387 40	160 98
ebruary	425 28	118 07
areh	499 89	177 78
orii .	288 58	104 12
ay	274 04	116 16
ine	298 07	88 64
dy .	215 92	276 11
gust	196 72	89 86
ptember	317 59	172 88
Totals	\$4,042 15	\$1,990 15

#### SUMMARY.

Year ending September 30, 1915 Year ending September 30, 1916	\$4,042 1,990	
Total	\$6,082	80

### STATEMENT OF PRODUCTS.

#### FARM AND GARDEN.

MONTH	Year Ending September 30, 1915	Year Ending September 30, 1916
tober .	#1 105 00	41 040 11
Volves In	\$1,105 88	\$1,040 11
Mmh	1,228 36	1,884 19
DIT & warm	681 74	1,016 37
Programme and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	460 46	721 92
ruary reh	337 43	833 63
reh	466 43	870 07
_ ~ ~ ~ • • • • • • • • • • • • • • • •	826 92	964 54
•••••	775 77	847 27
· · · · · · · · · · · · · · · · · · ·	1,266 14	1,156 47
	1,665 11	1.427 02
CURIT:	1,440 41	1.308 28
ember	1,195 97	2,820 84
Totals	\$11,420 12	\$13,875 71

#### SUMMARY.

Year ending September 30, 1915	\$11,420 12
Year ending September 30, 1916	\$13,875 71
Total	\$25,295 83

# ESTIMATES FOR WASHINGTON STATE REFORMATORY FOR BIENNIUM ENDING MARCH 31, 1916.

GENERAL, OPERATION AND MAINTENANCE.

Based upon average daily per capita cost of \$0.625 for 450 men.

CATABONE AND WARDS	
SALARIES AND WAGES-	
1 Superintendent	\$6,000 00
1 Physician	
1 Secretary-accountant	2,400 00
1 Director of education	3,600 00
1 Executive officer	3,000 00
1 Night captain	2,040 00
1 Detail officer	1,800 00
1 Steward	
1 Day engineer	
1 Teacher	
1 Truckman	1,440 00
2 Night watchmen	00 2,890 00
2 Overseers	00 4,320 00
1 Overseer	00 1,560 00 00 3,600 00
3 Overseers	00 3,000 00
o duards	
	\$53,280 00
Other Operations—	
1 Director of agriculture	2,040 00
1 Overseer	1,440 00
	\$56,760 00
Estimated probable increase of force and changes in salary and wa	
rates on account of length of services and two teachers in Manu	
Training Department	
Grand Total, Salaries and Wages	\$61,080 00
GENERAL EXPENDITURES—	
Office supplies	nn
Telegraph and telephone	
Postage	ão
Miscellaneous	00
	4,110 00
OPERATION.	
HEAT, LIGHT AND WATER—	
Fuel, 4-foot slab wood for power plant and kitchens, 8,250	
Fuel, 4-foot slab wood for power plant and kitchens, 8,250 cords at \$2.00	<b>X</b> 0
cords at \$2.00	10 20
cords at \$2.00.       \$16,500         Fuel, gas for residence and Hospital       670         Water       6,520	00
cords at \$2.00.       \$16,500 (         Fuel, gas for residence and Hospital.       670 (         Water       6,520 (         Lubricants       635 (	00 00
cords at \$2.00.       \$16,500         Fuel, gas for residence and Hospital.       670         Water.       6,520         Lubricants.       635         Repairs for plant.       654	00 00 00
cords at \$2.00.         \$16,500           Puel, gas for residence and Hospital.         670           Water         6,520           Lubricants         635           Repairs for plant         654	00 00 00
cords at \$2.00.       \$16,500         Fuel, gas for residence and Hospital.       670         Water.       6,520         Lubricants.       635         Repairs for plant.       654	00 00 00 00
cords at \$2.00.       \$16,500         Fuel, gas for residence and Hospital       670         Water       6,520         Lubricants       635         Repairs for plant       654         Electrical supplies and material       1,250         MEDICAL DEPARTMENT—	00 00 00 00 26,229 00
cords at \$2.00.       \$16,500         Fuel, gas for residence and Hospital       670         Water       6,520         Lubricants       635         Repairs for plant       634         Electrical supplies and material       1,230	00 00 00 00 26,229 00
cords at \$2.00.	00 00 00 00 26,229 00
cords at \$2.00.	00 00 00 00 00 26,229 00 1,650 00
cords at \$2.00.	00 00 00 00 00 26,229 00 1,650 00
cords at \$2.00.   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,50	00 00 00 00 00 00 00 00 1,650 00
cords at \$2.00.	00 00 00 00 00 00 00 00 00 00 00
cords at \$2.00.	00 00 00 00 00 00 00 00 00 00 00 00 00
cords at \$2.00.	00 00 00 00 00 00 00 00 00 00 00 00 00
cords at \$2.00.	00 00 00 00 00 00 00 00 00 00 00 00 00
Cords at \$2.00.   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,50	000 00 00 00 00 00 00 00 00 00 00 00 00
cords at \$2.00.	000 00 00 00 00 00 00 00 00 00 00 00 00
Cords at \$2.00.   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,500   \$16,50	00 00 00 00 00 00 00 00 00 00 00 00 00
Cords at \$2.00.	000 000 000 000 000 000 000 000 000 00
cords at \$2.00.         \$16,500           Fuel, gas for residence and Hospital         670           Water         6,520           Lubricants         635           Repairs for plant         654           Electrical supplies and material         1,250           MEDICAL DEPARTMENT—         Drugs and sundries           KITCHEN AND DINING ROOM—         \$330           Crockery         \$330           Dairy products         2,120           Flour         11,900           Groceries         15,868           Meats         14,977           Sugar         3,046           Supplies         160           Utensils         280           Vegetables         3,060           DORMITORY AND HOUSEHOLD—         Barber shop supplies         \$200           Blankets         781	00 00 00 00 26,229 00 1,650 00 00 00 00 00 00 00 00 00 00
cords at \$2.00.         \$16,500 (Puel, gas for residence and Hospital	000 000 000 000 000 000 000 000 000 00
cords at \$2.00.         \$16,500           Puel, gas for residence and Hospital         670           Water         6,520           Lubricants         635           Repairs for plant         654           Electrical supplies and material         1,250           MEDICAL DEPARTMENT—         Drugs and sundries           KITCHEN AND DINING ROOM—         2,120           Crockery         \$330           Dairy products         2,120           Flour         11,900           Groceries         15,886           Meats         14,977           Sugar         3,046           Supplies         160           Utensiis         280           Vegetables         3,000           DORMITORY AND HOUSEHOLD—         Barber shop supplies         \$200           Blankets         781           Brooms         261           Brushes         240	000 000 000 000 000 000 000 000 000 00
Cords at \$2.00.   \$16,500   \$16,500   \$16,500   \$16,500   \$1,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000	000 00 00 00 00 00 00 00 00 00 00 00 00
Cords at \$2.00.	000 000 000 000 000 000 000 000 000 00
Cords at \$2.00.   \$16,500   \$16,500   \$16,500   \$16,500   \$1,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000   \$16,000	000 00 00 00 00 00 00 00 00 00 00 00 00
Cords at \$2.00.	000 000 000 000 000 000 000 000 000 00

Total General, Operation and Maintenance		\$205,775 00
Poultry feed Plant division, seeds and fertilizer to prepare new ground for profitable growing of field and garden produce		16 <b>,600</b> 00
Swine feed         \$2,750 00           Veterinary services         175 00           Medicine         75 00	- 3.000 00	
RM—       \$7,005 00         Dairy stock feed.       \$7,005 00         Veterinary services       \$36 00         Medicine       159 00	· \$7,500 <b>0</b> 0	
ABLE AND GARAGE—  Feed for horses, shoeing and veterinary	2,400 00	8,000 00
GULATIVE—  Escapes, rewards and expense of pursuit	\$2,000 00 850 00	2,850 00
OP EXPENSE— Blacksmith, plumbing and machine	750 00 750 00 800 00 600 00	5,100 00
OTHING, DRY GOODS AND SHOES		24,500 00
HOOL—Supplies, text books and writing material for inmates		1.000 00
UNDRY—Extra washing on account of two bathing days instead of one as formerly		706 00

#### RM STOCK AND EQUIPMENT-

There was allowed last blennium for this purpose the sum of \$7,500.00 and on October 1, 1916, there was a remainder in the fund amounting to \$3,100.00, to be used for finishing laying houses, fencing poultry yards, farrowing pens, hog yards and fencing and cross fencing for the entire 329 acres of state property, tile for drainage, necessary equipment for separating cream, making butter and enslinge cutter, with motor; with the additional new land under cultivation, we should raise enough feed for a much larger herd of milch cows so as to furnish our own dairy products for the population, as such provisions are for better food for the inmates than meats and other articles that have to be purchased. The larger dairy herd, which should be acquired at once, will necessitate a new cow barn and this, with the necessary new equipment for working the increased acreage, will require.

\$7,500 00

#### OMESTIC BUILDING ADDITION-

There is imperative need for the construction of the first 120 feet of the ground floor of the south wing of the domestic building to adjoin the wing already occupied, together with the two-story connecting passageway between this building and the rotunda of the main building. This structure will provide adequate facilities for bathing the inmates and operating the institution laundry, which at present is done in the basement beneath the inmates' kitchen, where the bath room is so small that only a few of the men can bathe at once and the laundry is entirely too small, on account of which it is unhealthy to work there any length of time and gives rise to conditions which impair its efficiency. The construction of this addition is designed to accommodate

கை கையய	ated by the designing architects itemizes		
Exca	vating	• • • • • • • • • •	<b>\$469</b> 00
Conc	rete		6,580 00
	nt finish		1,294 00
Kein	lorcing	• • • • • • • • • • •	2,289 50
Struc	tural steel		49 00
Steel	guards, etc		1,722 50 160 00
	porary roof boarding		
Poof	working and sheet metal		8,710 00 792 00
	ering		
Mill	work and carpenter work	· · · · · · · · · · · · · · · · · · ·	
Plum	bing		
Wirir	lg		
	ing		1,000 00
Pain	ting		1,200 00
Hard	Ware		150 00
Cell	fronts		2,300 00
Ligh	ting flutures		250 00
<ul> <li>Vent</li> </ul>	registers		25 00
Incid	entals		1,500 00
	tect's fees		
ciding u and und of the p	pon any plan of installation. After exter most capable experting, we believe the problem is that contemplated by the item	ssible data naustive in most feasil s hereafter	vestigation ole solution estimated
Clean Resei Hydi Olean S Exca	ortant that we should have the fullest popon any plan of installation. After exter most capable experting, we believe the problem is that contemplated by the item. Thomson, O. E., of Seattle, and provide the found in the found of the found in the institution of the found in the institution of the found of the found of the found of the found of the found of the found of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of the foundation of	basins to	\$11,725 00 1,250 00 8,500 00 280 00 2,560 00 3,850 00
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85,

#### IL STORAGE EQUIPMENT-

750 00

#### GNAL SYSTEM MOTOR SET-

Our signal system, bells, etc., operate by dry cells, which have to be renewed frequently, rendering the maintenance costly and at times ineffectual; a small motor generator set would supply all present and future needs, even if a general clock system be installed; the estimated cost of this set will be.

250 00

#### EFRIGERATING PLANT-

We have at present a small ice box, wholly inadequate to our needs, which should be replaced by a modern refrigerating plant; the cost of ice per year here averages \$351.91, and under present conditions we cannot keep our supplies fresh and sanitary. In our investigation, we find that a plant adequate to meet our needs will cost approximately \$8,000, and with necessary alterations for its installation, amounting to \$900, will cost.

4.500 00

#### MATES' AND OFFICERS' KITCHEN EQUIPMENT-

We have had laid a new tile floor in the kitchen in the domestic building, the walls have been painted and the room is in fine shape, but our equipment is inadequate; we should have the items hereafter listed, most of which are for the inmates' kitchen, to bring the department to a state of modern sanitation and efficiency:

a state of modelin same time officially.	
Main Kitchen—  2 75-gailon aluminum jacketed steam kettles.  1 40-gailon aluminum steam tea urn.  1 3-compartment upright steam vegetable cooker, size B.  1 Set copper vent pipes to central outlet.  2 Food and dish trucks.  1 Heavy metal pot and pan sink.  1 Power dish washing and sterilizing machine.  1 Set metal scrap and clean dish tables.  1 All metal blanching sink.  4 Dish-up tables.  1 Portable pan rack.	\$440 00 850 00 290 00 56 00 95 00 85 00 75 00 24 00 96 00 45 00
Bake Shop—  Removing and rebuilding bake oven.  1 Dough mixing machine	\$1,794 00 \$1,000 00 475 00 110 00 90 00 89 00 23 00
Scullery—  1 All metal vegetable sink.  1 Vegetable paring machine with motor.  2 Maple top work tables.  1 Dumb waiter to basement.	\$1,787 00 \$42 00 340 00 60 00 85 00
Storeroom— Windows, wire mesh, around steward's room	\$427 00 \$75 00
Officers' Kitchen—  1 Seven foot two-oven range.  1 Hand power dish washing machine and sterilizing machine and metal tables.  1 Steam table and plate warmer.  1 Double tea and coffee urn, steam.  1 Steam line for same.	\$185 00 165 00 135 00 75 00 60 00

4.653 00

#### MANUAL TRAINING AND SHOP EQUIPMENT-

The equipment secured by the funds available from the previous appropriation under this title, have greatly advanced the efficiency of the institution both for its own particular benefit and the further training it provides the men engaged in that work. We now deem it advisable to secure additional equipment as hereafter listed, of which the shoe machinery and sock making machinery will contribute to a reduction of the maintenance cost; we consider that the need for this equipment is so obvious and its value, once installed, so manifest, that no extended argument is necessary:

Shoe making machinery, 22-foot Goodyear welt outfit, with rapid lock stitch sewing machine, dies, lasts.	
motors, etc., complete	\$1,800 00
Sock knitting machine, complete	500 00
Lathe, 16-inch swing, 10-foot bed	1,000 00
Disc and drum sander finisher and motor	1,000 00
Sundry small tools for shop	500 00
Incidentals, belts, pulleys, shafts, etc	
Printing press, type, equipment and motor	1,125 00

#### LAND CLEARING-

There will be a substantial remainder in the appropriation for this purpose as allowed last bleanium and whatever it is, should be re-appropriated to enable this work to be carried forward, as we believe it can be completed within our original estimate of \$10,000. The very wet weather in all seasons has prevented us from prosecuting this work as was planned, but with the fund still available, as it would be under this request, we believe the state land at this institution will all be cleared, graded, drained and put into crops in 1917. Estimated balance to be re-appropriated.

4.0

3.0

3.30

2.8

#### NEW TRUCK-

Under the conditions growing out of the institution being distant from the railroad, all supplies and material have to be hauled: for three years a five-ton truck has handled this but further maintenance of this truck will more than exceed the cost of a new one, which, by trading in the old one, will require an expenditure of......

#### TRANSMISSION CABLES AND SWITCHBOARD EXTENSION-

We are renewing our request of two years ago for the extension of our switchboard in the power house to take care of the power of light current for the shop buildings; at present, we have switches and circuit breakers set up on boards in a temporary and unsafe manner. Our light and power cables should be on different circuits for the proper handling as well as for safety; the supports for these cables are of temporary wooden construction, which should be replaced by permanent rackets. These, with the additional cables and panel for switchboard, will cost

#### WALL-

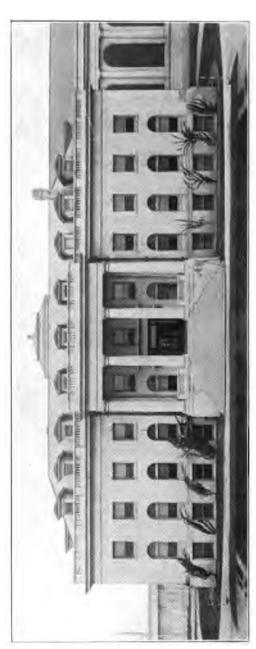
The wall enclosing the main yard is of wooden construction, which will have to be renewed to the extent of planking, to cost..........

Chaplain, salary of.....

#### MISCELLANEOUS-

Library and Entertainment - Piano	9400.00
FIBRO	÷100 00
Books -	
Vocational subjects	600 00
Religious and moral training	400 00
History and biography	250 00
Magazines	150 00
General reading, fiction, etc	800 00
Motion picture expense	200 00





ADMINISTRATION BUILDING-STATE REFORMATORY.

#### RECAPITULATION.

MAINTENANCE, OPERATION AND GENERAL— For 450 inmates at \$0.625 daily per capita		<b>\$</b> 205,775 00
CAPITAL OUTLAYS-		
Parm stock and equipment	35,200 00	
Water system and right of way	750 00	
Signal system motor set		
Kitchen equipment Manual training and shop equipment Land clearing	6,300 00 4,000 00	
New truck Transmission cables and switchboard extension	8,000 00	
Wall		150,658 00
MISCELLANEOUS-		
Chaplain, salary ofLibrary and entertainment	2,400 00 2,800 00	
		5,200 00
Grand Total	•••••	<b>\$3</b> 61,628 00

#### REPORT OF EXECUTIVE OFFICER.

October 1, 1916.

Mr. Donald B. Olson, Superintendent, Washington State Reformatory.

Monroe, Washington.

DEAR SIR: I hand you herewith the report covering the work of this office for the biennium ending September 30, 1916.

As the inmate himself is the one of paramount importance and concern in the administration of the institution, I have during the biennium covered by this report interviewed 410 inmates, with the one idea of learning his antecedents, such as family history, nature and reason for criminal offense, environments and associates, home and economic conditions, previous criminal record, if any, and all information that can be ascertained that may prove of assistance in determining the inmate's fitness for work, study, trustworthiness and ultimate parole. In connection with this work and that it might be more thoroughly carried forward a bureau of identification was established in February, 1916. The information and facts learned during these several interviews is placed at the disposal of the superintendent and the department heads.

All assignments to work are made from this office. The physical and mental ability of an inmate for any given occupation is first taken into consideration. His own choice is followed in so far as practicable. As there are some ninety-odd kinds of work that are open to the inmates of the institution it is rarely necessary to assign an inmate to a task that he will find other than congenial. All of the inmates are

urged to take into consideration, in determining his choice of wor while in the institution, so that in so far as possible the work he does here will better prepare him for the work that he intends or desire to follow after being paroled. This is in direct accord with the being deals of the accepted meaning of "reformation." That a man make taught both the desire and the ability to earn an honest livelihood

All new arrivals are taken as soon as possible after admittance t the institution before a committee of their fellows, which is called the "Greeters' Committee," the membership of which comprises the edite of the Index, the institution weekly publication, in the capacity of chairman, the chairman of the main building council, one represent tive from the honor community and one representing the honor tie The committee advises the new inmate as to what he must do an more particularly what he must not do. Of the many advantages that he may gain for himself as the result of good conduct, the benefits the will accrue to himself if he takes advantage of the opportunities for self-improvement that are afforded him as an inmate of the reforma tory, although the latter fact may be enforced and thus a questionable privilege. The "Greeters" are undoubtedly doing a great deal of good both for the inmate body and for the institution. The appeal that the make to the inmate upon his immediate arrival, when he is wrough up mentally and feels that he has not a friend in the world, is con ducive to better spirit among the inmates and therefore to better di cipline.

The honor community, a self-governing inmate body, is and habeen for nearly three years an established organization. Its officer are all elected from and by the citizens of the community. Any cas of misconduct that is committed by a member of the community, or be an alien while in the confines of the community, is brought before the community court. Punishment is meted out in accordance with a pense code that has been approved by the executive officers of the institution Discipline under the honor system of self-government is of the highest order. The saving to the state which is afforded as a result of the lack of necessity of maintaining disciplinary officers in this building in not the least of many arguments in favor of furthering the honor system.

In accordance with the idea of allowing all possible privileges to the inmates that merit such consideration, both as a reward for exemplary conduct and an incentive to still greater effort along that line the honor tier was inaugurated in March, 1916. One tier of the main building or cell block is given over to the exclusive use of those in mates who in the opinion of the chaplain, the director of education and myself are deserving of the extra privileges. An inmate in order to be eligible for the honor tier must have been in the institution at least four months, and he must have an unbroken record of the same duration of time without a report. The tendency so far shown by the in mates has been to greatly appreciate these extra privileges and to strive to earn more.

Another inmate organization that has proven of great efficiency is the main building council. There is one man on each tier, he being responsible for the good conduct of all inmates on that tier while in their cells or at any other time while in the charge of a councilman. The discipline of the main dining room is entirely under their charge and is of such excellent order that talking has again been permitted during meals.

During the summer months one hour each day was devoted to military drill. Throughout most of that time there were four companies on the drill grounds.

Although there are no records by which a fair comparison may be obtained, it is safe to assume that the general discipline during the period just ended has been far and away better than that for any like period of time since the institution was established. The conduct for the last year of the biennium was so far above that of the first year that it is only natural to make the assumption.

This improvement in conduct and discipline is a most encouraging condition to all concerned and speaks for itself in behalf of the methods now in use in the management of the institution.

One of the natural consequences of the condition of affairs as related in the foregoing paragraph is the increase in the number of trusties that are now at work outside of the large enclosure. A larger percentage of the total population are now working on the institution properties outside of the enclosure than ever before in the history of the institution.

Probably the most noticeable feature, as well as the most gratifying, during the entire life of the institution has occurred in the first nine months of the present year. This is the very marked decrease in the number of new men admitted to the institution. Whereas previous to 1916 the average increase in the population was one new inmate each day, so far this year there have only been one hundred and thirty-three (133) new men received at the institution.

The total population at this time is three hundred and twenty (320) inmates. Of this number two hundred and thirteen (213) are in the first grade, ninety-three (93) in the second grade, and fourteen (14) are in the third grade. Of the number in the third grade at this time, six (6) of them are inmates who have been returned to the institution as parole violators.

The total number of inmates who have been transferred to the state penitentiary has been twenty (20). The total number of inmates who have been transferred to the state hospitals has been seven (7). The number returned to this institution as cured has been five (5).

At this time I wish to express my appreciation for the earnest cooperation on the part of the officers.

Respectfully submitted,

J. C. WILCOX,

Executive Officer.

#### REPORT OF CHIEF PAROLE OFFICER.

To the Superintendent and Board of Managers, Washington State Reformatory.

Gentlemen: In connection with the report of the parole department, we are submitting some statistics, or tables, showing our work from different angles.

It will be readily seen that the work of this department has grown by leaps and bounds in the last two years. Table No. 1 gives 330 men reporting and 56 in the questionable column, making a total of 386 on parole. Notwithstanding the increase in the number of men paroled we have tried to keep up the standard of the work. We have endeaved ored to make the parole department a real help to the men leaving the institution. Table No. 4 will show that the men sent direct to employment have averaged almost as well as those sent to their own home. It will show that 324 were thus sent out and approximately 600 postions have been secured for the men while on parole during the lattwo years. We have also used "big brothers" to assist the paroled meand in some cases this has proven very successful.

Hundreds of letters have been written to the men advising, encounaging and helping. Likewise, hundreds of letters have been received from them and their reports, coming in each month, have been careful read by us, watching always for a chance to help and block any ten ency on the part of the paroled man to go back to the old life.

Some people seem to think that the work of the parole departme Whi is to apprehend violators and return them to the institution. this is a part of our work, it is a very small part, in our estimation Our work, as we see it, is to assist men on parole to live within the law, and keep them out of the institution as long as it is consistent with the rights of others. The men inside the institution usually have a wrong conception of the work of the parole department as the ma returned for the violation is inclined to blame everyone but himself fo his failure. We have, however, hundreds of letters in the files of the men who have made good, thanking us for the assistance they have received while on parole and commending our methods. Fifteen hundred and ninety-seven cases have passed through this department since its inception and it is very pleasing, in passing from one part of the state to another, to meet the men making good in their own little sphere.

We are doing more than most institutions for the men on parole, but we are not satisfied, nor will we be until we know that everything possible is being done for the men. Two parole officers cannot give the 386 men the attention that they should, for it is not only necessary that these men be visited at frequent intervals but work must be secured

or nearly all of them; "big brothers" found for some; homes of others that be looked up; and often we must straighten out their troubles and smooth their difficulties. The men on the inside we must get actualisted with and prepare them for their release and there are always be parole violators to be looked up and, if apprehended, returned to be institution. In this connection we wish to recommend that an appropriation be asked for sufficient to put two more parole officers in the field. We believe that the encouragement, assistance and protection given to the men on parole is an essential part of the work of eformation and must not be neglected.

It is very encouraging to notice the decrease in commitments to be institution since the first of the year. In the first eight months of 215, 250 were committed to the institution, while in the same period 1916, only 122 have been sent to us. It is doubly encouraging, however, to the parole officers to notice the improvement of the men on a role. They have no longer to fight the temptation of the open saloon and the environment around them has improved one hundred per cent. It is interesting in this connection to note the figures in Table No. 5. We look forward to even better records as the prohibition law is better aforced and our young men learn that they can get along without inexicating liquors.

While the population of the institution has decreased in the last ear, it will be some time before the parole department is affected as the men now in the institution must go through this department.

We wish to express at this time our appreciation for the assistance given us by many friends and employers throughout the state. It is it is in the help of these men we would be greatly handicapped in our ork of assisting paroled men.

Respectfully submitted.

C. T. WEBB,
Chief Parole Officer.

Table No. 1.
SHOWING RECORD OF MEN PAROLED.

DATE	Number Paroled	Total Violators	Final Dis- charge	Report- ing	Total Without Violation	Percent- age Without Violation
l paroles prior to Janu- ry 1, 1915.	1,066 298	330 89	689 79	47 125	736 204	69.1 69.9
nuary, 1916 pril, 1916 ay, 1916	56 102 15	10 11 2	1	45 91 13	46 91 18	82.1 89.2 86.7
lly, 1916	1,597	445	769	383	1,152	95.4 

Table No. 2.

SHOWING PERCENTAGE OF MEN COMMITTING CRIME AFTE
LEAVING THE INSTITUTION.

MEETING	Number Paroled	Known To Have Committed Orime	Total Without Crime	Perca age Witho
October, 1914 December, 1914 January, 1915 April, 1915 Outober, 1915 October, 1915 December, 1915 January, 1916 April, 1916 May, 1916 July, 1918	18 52 67 91 64 19 56 102	8 3 9 8 12 7	61 15 43 59 79 57 19 51 101 15 65	88. 83. 82. 86. 86 89 100 91 99 100
Totals	618	58	565	91

### Table No. 3.

## SHOWING NUMBER OF MEN COMMITTED FOR DIFFERENT CRIMES AND RECORD MADE ON PAROLE.

INCLUDING ALL MEN PAROLED UP TO JANUARY 1, 1915.

CRIME	Total	Violat ore	Per
Brand larceny	331	100	
Burglary	326	101	1
orgery	188	70	1
ssault	49	1 0	1
lobbery	22	1 4	1
arceny from the person	15	7	
	13	;	1
Sape	12	ء ا	1
Carnal knowledge		3 3 2	
bduction	8	3	1
odomy		2	1
Iorse stealing	8	2	1
emage to property	8	1	1
ncest	7	·······	1
iving off earnings of a prostitute	7	2	1
mbezzlement	7	\ <u>.</u> • •	ļ
elling liquor	6	3 2	1
Receiving stolen property	5	2	ı
btaining money under false pretenses	5	1	1
dultery	4		• • •
fanslaughter	3	1	• • • •
reaking jail	3	2	
Vilful neglect of family	2	2 1	1
ttempted suicide	2	1 1	
eriury	2	l	
ligamy	ĩ	1	

Table No. 4.

#### SHOWING MEN PAROLED TO THEIR HOMES COMPARED WITH MEN SENT DIRECT TO EMPLOYMENT FROM OFFICE.

COVERING PERIOD FROM OCTOBER 1, 1914, to OCTOBER 1, 1916.

	Paroled	Total Violators		Total Without Violation	Per Cent.
Men sent direct to home		64 88	21.6 27.2	232 236	78.4 72.8

#### Table No. 5.

### COMPARING REPORT RENDERED SEPTEMBER, 1915, WITH THAT RENDERED SEPTEMBER, 1916.

PERIOD	Number Paroled	Returned		Total Violators	Per Cent.
anuary 1, 1915, to September 1, 1915 anuary 1, 1916, to September 1, 1916		9	81 23	40 26	19.0 10.9

## REPORT OF DIRECTOR OF EDUCATION AND VOCATION.

MONROE, September 30, 1916.

DEAR SIE: I hand you herewith the report of the work done in he department of education and vocation for the biennium ending epetmber 30, 1916.

Ion. Donald B. Olson, Superintendent, Washington State Reformatory.

Education means a "drawing out" of all the possibilities there are a human being. By the ignorant and untrained, education is rearded as merely knowledge-getting—cramming one's mind full of acts. Quite often we hear ignorant men say they prefer a "practical" an for their work rather than an educated man: that a college trainng unfits a man for practical affairs. Such men are usually most imractical themselves, for they believe that knowledge, training and inght stand in the way of effectiveness, and that guess-work plus hard nocks contribute towards it. In addition to lacking knowledge they ck also the drawing out or cultivation of their faculties which we all education, and which would enable them to become really praccal men, recognizing what genuine practicality means. My three

years' work in this institution has been an organized effort to trait the inmates entrusted to our care so that they may utilize as much a possible of their natural talent along the lines of correct citizenshi which includes ability to make a living as well as an understanding and appreciation of their relations to their fellows. It has been the steadfast purpose of this department to co-ordinate mere learning facts with the work of each man's life to the end that every faculty his mind and body may be educated, or drawn out to its fullest capacition usefulness. That is why the vocational, or trade school training belongs with the academic training in every man's education.

Very few inmates get into this institution who are educated ever in a small degree. True, many of them have gone through the school and have learned many facts. But most of them have not co-ordinate these facts with life, and hence lack that drawing out, or development of all their powers for good, which constitutes real education. The typical inmate is a drifter. He takes the path of least resistance. H has never "found himself" to the extent of knowing what he can do what he ought to do, or even what he would like to do. Such a ma needs discipline. He needs an opportunity for self-discipline, phy ically, mentally and morally. A glance at the statistical report pr pared for this biennium will show that more than half the inmates ha less than an eighth grade education when they entered, and that near two-thirds of them were common laborers. This fact is not a me coincidence; it is true for the year 1914; it is true for the year 1915 and it is true for the year 1916. There does seem, therefore, to be very close relation between educational unpreparedness and the tenency to get into a corrective institution.

#### VOCATIONAL GUIDANCE.

In addition to the interviews which elicited the information cotained in the statistical report, I have interviewed each inmate sociafter he came into the institution with a view of determining his ment habits and vocational aptitudes. The majority who have not chose their life work when they enter here have taken so little note of the experience in life that they are ill prepared to choose intelligent what they would like to do. This matter has been gone into thorough with each lad until most of them have made definite plans for the futur and put forth some effort to prepare themselves for the same. The academic training which they then need for their respective callings planned with a practicality and sensibleness that enables them to a complish much more than they could otherwise do in the short time they have for school while in the reformatory.

#### MENTAL DEFECTIVES.

In the last biennial report I recommended the segregation of i mates markedly defective from those that are normal. This has been partially accomplished by the occupation of the main building, or exhouse, and in school by the application of the Binet tests of mentality.

at in the matter of work and general association in the yard and in e assembly meetings it remains to be worked out. The new shop silding and the consequent use of more skilled trades, and the cultition of more farm land will make this matter more easily accomished.

#### THE SCHOOL.

During the school year of 1914-1915 the school was in session continuously throughout the year, except for two weeks in the latter part August. During the year of 1915-1916 the work was conducted regularly until July 31st, when the classes were dismissed for the summer ration extending through August and September. Classes were mainined six days each week in all the eight grades of common school ork, in vocational training for all of the trades we have been able utilize here, and in the Spanish language. Classes have also been aducted in shorthand, but lacking typewriters we were not able to take the work in stenography of practical use. Report was made each with to the superintendent of the enrolment, classification by grades, erage attendance, and progress made. Following is a summary of the year's enrolment and attendance:

MONTH	Enrol- ment	Average Attend- ance	
ober, 1914	151	147	Including night school
ember, 1914	145	138	Including night school
ember, 1914	149	143	Night school not included from this on.
uary, 1915	137	132	Classes in cutting, drafting, journal-
ruary, 1915	143	136	ism, literature and expression, and
ch, 1915	183	162	citizenship were held somewhat irreg-
11, 1915		141	ularly during the year, chiefly in the
7, 1915		134	evenings. Enrolment not included in
e, 1915		139	these figures.
7. 1915		146	-
ust. 1915	185	189	Band enrolment included in August and
tember, 1915	147	140	September.
Average for year	158.4	144	ł

MONTH	Enrol- ment	Average Attend- ance	
ber, 1915	153	145	Classe
ember, 1915	149	140	zens
mber, 1915	176	165	ogra
uary, 1916	185	169	mov
ruary, 1916	192	177	year
ch, 1916	172	161	inclu
1, 1916	148	116	
. 1916	126	110	
. 1916	125	111	
, 1916	127	112	
urt, 1916	• • • • • • • •		
ember, 1916	•••••		l .
Average for year	155.1	140.6	1

Classes in literature, journalism, citizenship, agriculture, history and geography and science, by means of moving pictures were held during the year enrolled 80 to 100 students, not included in these figures.

The policy of the institution is to require every inmate to atte day school who has not had a common school education, although m in the tailor shop, trusties on crew No. 4, and some other outside cre were not permitted to attend. The secondary work is voluntary, t due credit is given for good work done in the higher grades. Owing the short time the boys have for school work, the course of study h been intensified and made just as practical as possible. Three branch are specialized, namely, reading, composition and arithmetic. History physiology, geography and civics are taught as reading lessons; wh penmanship, spelling, punctuation, etc., are taught in conjunction with composition. Above the sixth grade arithmetic is specialized. The students looking to a clerical or business vocation are given percents and its applications, or business arithmetic, bookkeeping, etc., wh those preparing for one of the trades are given mensuration, squa and cube root, drafting, etc. The methods of instruction employed ta into consideration that the students are grown-up men, who are n interested in the class of material that young children are; we the fore use subject-matter which attracts and holds their interest. Wi a course so intensified, and bearing directly upon each individua trade, we are enabled to do much more than the usual work in a giv time. It is not unusual for our men to advance a grade or year's wo in from six to eight weeks.

#### TRADES.

The matter of determining the aptitudes and vocational preferen of the men, and assigning them to work for which they are fitted natural bent and previous training has exercised a far-reaching effe on the discipline and general spirit of the inmates of the institution changing them from a surly, dissatisfied body of men "doing time" a body of men interested in their work, and because of this, hopef for the future, tractable and amenable to discipline. When men a assigned to compulsory labor without regard to their aptitudes, the often become dissatisfied, and among dissatisfied men a very sma grievance will breed a riot; but when men are given work to which they are adapted they soon get an "object in life," and settle down improve themselves. This department had the assignment of the me long enough to inaugurate a change from the old methods, a change which resulted in very noticeable improvement in the temper and b havior of the inside men, due very largely, I think, to satisfied men Our records show conclusively that of the men who learned a trace here, or worked at their trade while here, very few have returned t this or any other penal institution, most of our recidivists have worke at unskilled labor, or were allowed to change often from one occupa tion to another. It is my belief, therefore, that the inmates should be assigned to their trades only after a thorough study of their capabil ties, and then should not be assigned to another job unless a ver palpable mistake has been made in the first diagnosis.

The farm offers one of the best opportunities for men to learn a rofitable calling. "Back to the soil" now means specialized farming, uch as dairying, poultry raising, stock raising, hog raising, truck farmng, berry and fruit growing, in addition to the ordinary pursuit of eneral farming. The carpenter shop is equipped with machinery and s giving training to a number of men. With the completion of the ew shop building machine-shop equipment will be installed, giving mployment to others. Notwithstanding the conflict of testimony on ne subject, I am convinced from a thorough investigation that shoes or the inmates could be made here at a considerable saving to the initution, and I desire again to recommend that machines be installed sew the uppers for the shoes required by the inmates, and that the loes be welted by hand. This will teach a useful trade to another roup of men. We require at least fifteen inmates in clerical positions. recommend installing a few typewriters in the school so that men ay be trained to fill these places acceptably and at the same time fit em for making a good living outside. It is almost always difficult to ed suitably equipped men to fill the places of outgoing clerks. With e typewriters installed, their training would be a matter of regular eparation, and much time would be saved by eliminating the lost moon due to "breaking in" a new man in a responsible clerical position. he tailor shop not only makes all the work clothes, uniforms and ing-out suits for the inmates, but it equips many lads for good jobs den they go out. The print shop trains a few men well, and if posble it should be enlarged so as to do the printing for the state board control, in addition to what they do now. The electrical work and umbing of the institution can furnish employment for only a few en, except, of course, when extensive building is being done. Cookg, baking, and laundry for the institution also trains a few men in eful trades.

#### ENTERTAINMENT AND ATHLETICS.

Closely associated with school work, and having an educational due, is the matter of recreation and play. To relieve the duil gray of attine life, to encourage physical health and development, and to ader life inside more nearly normal, Saturday afternoons and events are devoted to athletics and entertainment. Baseball, basketball, dother forms of athletic sports, the moving picture machine and the adeville performances of the inmates have furnished relaxation for men, and have also been of considerable educational value as well, elieve that football, as now played, could also be used to advantage, the programs and games for the past biennium have been uniformly the class, and the results for good on the inmates seem to fully tify the energy spent in this branch of institution activities. The ening classes in literary society, debating, journalism and the educational movies have all contributed to the growth, development and self-atrol of the inmates participating therein.

#### RECORD OF INMATE STANDING.

Since the fitness of the inmate for parole depends largely upon the mental and industrial improvement he has made, this department he been charged with the work of preparing the data showing the standing of each candidate for parole in work, school, behavior and gener moral character and tabulating the same for the use of the board managers at each meeting. About one thousand applications for parole which all the reports of the different activities are assembled, fact tates the work by familiarizing each department with what is being done in every other department.

#### THE INDEX AND PRINT SHOP.

The Index is the inmates' paper, edited and printed entirely them. It is and has been a power for good among the inside men, at has also served as a medium to keep the public in touch with the objects and purposes of the Reformatory. It exchanges with nearly a the papers of the state, many of which occasionally reprint article from its columns. The print shop, in addition to getting out the Index week, does all the job printing required by the institution. So or seven men have been the working force employed all the time. See ral have learned the trade sufficiently well to go out and make go records in outside print shops. In my judgment, it would be well recommend that the legislature give us the authority to do printing to other institutions, such as the Hospital for the Insane, the Feed Minded, etc., install better equipment and give an opportunity for larger number to acquire a knowledge of the printer's art.

#### TRAINING FOR CITIZENSHIP.

The whole object of a reformatory is to train the men who as sent here for citizenship, and to turn them back into society fitted take up their duties as good citizens. Citizenship implies a two-fol training; first, efficiency in earning power; and second, right unde standing of one's relation to society. A good stiff course in labor, d veloping knowledge and skill in some trade, is in my judgment the mo important single factor in reform. To that end the school, the shop and the other work crews have been provided. To understand one relations to society, his rights and duties therein, is not a whit les important. Ordinarily institutional life does not provide anythin which compels inmates to exercise initiative. They must necessarily follow closely the routine, go to bed, arise, go to meals, go to work and quit work at a given signal. To overcome this difficulty somewhat an experiment in self-government was planned, mention of which was made in my report two years ago. The superintendent authorized the organization of a body of trustworthy men into a self-governing group to make and enforce their own rules, within certain limits. They have gradually been given a larger and larger share in their government a they merited it. In order to become eligible to participate in this honor community of responsible self-government it is made necessary by the rules for them to take a course of studies in citizenship. I have given this course to four groups of inmates in the past two years, and have begun on the fifth. The fourth administration is in power now, and I feel sure the record they have made has more than justified the experiment. The members of this will be better citizens for the outside, more alert to their rights and duties than if they had not received this training.

#### THE PERSONAL INTERVIEW.

The most effective, the most important, the most satisfying part of my work is one of which least can be said in terms of statistics, or general report. I refer to the personal interviews I have had with the inmates upon their request. When a man has something on his mind of which he wishes to relieve himself, or when he wishes to be understood, then comes the best means of getting in real touch with him. Often quite unexpectedly, both to the inmate and myself, one of these interviews will disclose the key to his innermost thoughts and open the way to help him "find himself." The personal element is the greatest force. I have taken advantage of every opportunity offered to utilize it, and discretion in offering the personal help, whether it be advice, sympathy, encouragement or reproof. Reports of these interviews could not reflect the deeper significance of the mutual understanding and basis for a resolve to do better things.

Rspectfully submitted,

J. M. TADLOCK,

Director of Education and Vocation.

# REPORT OF THE DEPARTMENT OF SOCIAL SERVICE AND MORAL EDUCATION.

Mr. Donald B. Olson, Superintendent:

Our library consists of 4,500 books and a large but variable number of out-of-date magazines, furnished us mainly through the generosity of the woman's clubs, church societies, editors and other individuals.

The state legislature at its last session also made an appropriation for this purpose which has been of valued assistance.

Less than one-fifth of our books are of a nature to supply the popular demand, but this usable one-fifth is always active. More current magazines, reference works, vocational books and periodicals, and attractive biography and fiction would increase the good thinking, social value of our men.

Our officers, as well as inmates, make increasing use of our library. Our community is small and isolated. We have no other source for mental stirring. Therefore, such magazines as the World's Work, the American Magazine, The Literary Digest, Current Opinion and The Independent come into our midst to renew the higher life of our whole community. "Expect poison from stagnant water" applies to prison and similar institutions as nowhere else.

Moral development, the main aim of our institution, is stimulated by well adapted literature furnished by the state.

The weekly assembly considers the great questions of character and citizenship. It has been addressed by some of the best and most useful citizens of Washington.

Enthusiastic smaller meetings are weekly occurrence. Group study and individual ethical instruction have developed into a thorough system, meeting the needs and interests of every grade and type.

This source of ethical instruction is based on the Bible, printed be the institution, and is easily associated with the different religious meetings regularly in progress. The constant assistance of inmates an officers, and many helpers from the outside, have enabled us to make this program effective. I gratefully acknowledge the splendid service of my colleague, Father Kelly, in almost four years of mutual coperation.

Miss McKnight in representing the Christian Science church her has won the respect of all who know her.

Members from many churches have stood ready at all times to d whatever was needed to be done in the line of religion and social service. This assistance of outside friends and organizations, workin through and with this department, can alone give adequate ministry t the great social and religious needs of this institution.

The larger duties of the chaplain have gone far beyond the organization and instruction. He belongs to the personal problems of every inmate regardless of creed, class or party.

By individual interviews, inspection of incoming mail, correspondence with friends of inmates, specialized study and co-operation with other departments, the chaplain endeavors to familiarize himself with the special needs of every inmate. To finally put this work on a scientific basis has been the aim of this department since the inception of the institution. Every year has marked progress, but there is much yet to be attained.

The nature of this private work can not be described in statistics or figures. Certain external features of the regular social work may be of interest. Sunday evenings might be characterized as the three-hour Sunday school with the usual rally service and class meeting.

One evening is devoted to interviews which are requested by inmates. One evening is spent pleasantly enough in visiting from room to room. One evening is regularly occupied by a prayer meeting and instruction for those who need special assistance in the moral study courses.

The moral education is based on the private correspondence idea, because privacy and individual attention are essential to the best results. Each lesson is also linked with an introduction to some special reading in the library and to the educational, vocational and practical aspects of the institution life. Thus every facility of our library is utilized in the proper connection for individual development and morality is demonstrated to be inseparable from everyday duties and opportunities.

The main responsibility for reformation and regeneration is intelligently put upon the individual inmate as he is able to bear it.

All departments of our institution are harmonizing and progressing more and more towards the common end of practical moral upbuilding.

Many men have seemed to respond to our efforts and prove their value here and in after-institution life.

Respectfully,

W. WITHINGTON, Chaplain.

#### REPORT OF ATTENDING PHYSICIAN.

September 30, 1916.

Mr. Donald B. Olson, Superintendent, Washington State Reformatory, Monroe, Washington.

DEAR SIR: I herewith hand you my report covering the work done in the medical department of the Washington State Reformatory from October 1, 1914, to September 30, 1916.

Apart from the statistical tables included therein, the following information is submitted:

During the whole of the time included in this report the institution has been free from contagious diseases, with the following exceptions:

For a period of four weeks, from May 1, 1915, we had one case of typhoid fever which terminated in recovery and without spreading the lisease to other inmates. Again, for a period of four weeks, from March 10, 1916, another case of typhoid developed. Following this, antiphoid inoculations were given to all inmates and to a majority of the officers. Since that time no further cases of typhoid fever have developed. In January, 1916, one case of scarlet fever developed, and he case was immediately isolated and further extension of this disease was thereby prevented.

In the matter of venereal diseases, our records show that of the necoming inmates 14 per cent have gonorrhoea,  $4\frac{1}{2}$  per cent have yphilis, and 1 per cent suffer from some other form of venereal disase. As has heretofore been the case of handling of this class of dis-

ease, it has been the most difficult part of the work of this department. It is a matter of satisfaction that with the form of segregation it has been possible to maintain that no case has come to my attention in which the disease has been communicated from one inmate to another in the institution.

The percentage of inmates suffering from tuberculosis on admission has slightly increased, 49 cases of this disease having been admitted during the time covered by this report. In the majority of the cases the disease has been localized in their lungs, with a small number of tubercular glands and tubercular bone disease. The result of treatment in these cases has been one of the most satisfactory features of my work. In connection with the tubercular situation it is of interest to note that the entire dairy herd, supplying milk to the institution, has been placed under the supervision of the state board of agriculture, and that no cows excepting those which have passed the tuberculin test by a state veterinarian are kept on the institution farm.

Since the passage of the Harrison anti-narcotic bill, the number o inmates addicted to the use of drugs, especially morphine and cocaine has been largely decreased.

Through the services of the state dentist at frequent intervals diseases of the mouth, tongue, teeth and tonsils have noticeably diminished. This service is of the greatest importance and should be maintained.

In November, 1915, through the kindness of Dr. George Swift, o Seattle, a large number of inmates who had complained of ocula trouble were submitted to examination and treatment instituted.

Throughout the period of time covered in this report inspection of all dormitories, kitchens, toilets and bath rooms have been regularly made, and the food served to the inmates has been examined at frequent intervals. It is my opinion that this food has been at all time of good quality, properly prepared and served in sufficient amounts.

The arrangement by which a special diet kitchen has been in service for the use of hospital patients is still in vogue and has proved extremely satisfactory. An unlimited supply of such foods as milk, cream eggs, fruit and fresh vegetables has been constantly available.

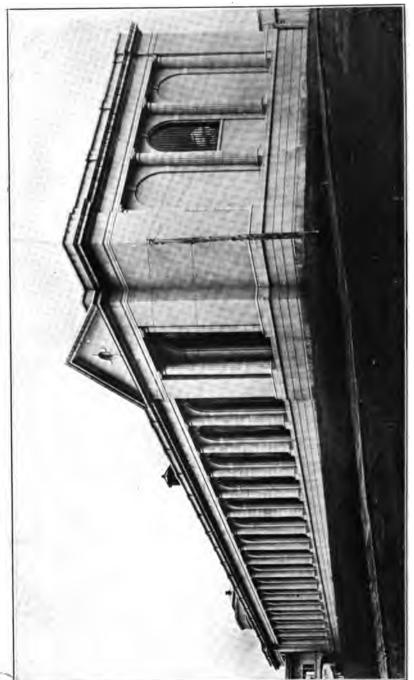
Temporary isolation hospital was built with a capacity of about four men and has been used when required. The lack of a permanen isolation hospital is still felt and increases the difficulty and great! diminishes the efficiency of my department.

It is a pleasure to testify to the hearty co-operation of the heads of our other departments, without which much of the work done, especially in preventing diseases, would have been impossible.

Respectfully,

Dr. H. K. STOCKWELL.
Attending Physician.

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NEW CELL BLOCK AT STATE REFORMATORY.

WASHINGTON STATE REFORMATORY, MONBOE, WASH.

Yr. Donald B. Olson, Superintendent, Washington State Reformatory.

DEAR SIR: I hereafter present my report for two years, beginning with October 1, 1914, ending September 30, 1916.

Very truly yours,

Dr. H. K. STOCKWELL,

Medical Department.

#### SHMMARY

From	Octobe	r 1, 1914, to September 30, 1916.	
Number of cases September 30, 1 Number of cases of Number of cases d	admitt 916 ischar ischarg	ital October 1, 1914	4, to 819 755 51 otem-
ber 30, 1916			4
		•••••	
Number of cases of	lied		3

## Surgical Cases Treated at the Dispensary From October 1, 1914, to September 30, 1916.

Abscesses	10	Lacerated hand	17
Alpoecia	3	Lacerated finger	93
Appendicitis	4	Lacerated head	7
Bruised knee	16	Lacerated thumb	5
Bruised arm	14	Lacerated leg	7
Bruised leg	21	Lacerated face	3
Bruised finger		Lacerated wrist	3
Brdised toe		Lacerated arm	7
Bruised hand	8	Lacerated eyelid	2
Bruised thumb	9	Lacerated lip	5
Bruised foot	17	Lacerated nose	2
Cyst in neck	4	Lacerated scalp	4
Concussion of brain	1	Lacerated chest	2
Carbuncies	2	Lacerated ear	1
Dislocated knee	2	Muscle bruise	19
Dislocated metacarpal	2	Old empyema	1
Dislocated arm	3	Old Potts fracture	2
Dislocated jaw	1	Poison bee sting	3
Dislocated thumb	3	Orchitis	2

Excetosis jaw 1	Otitis media 39
Enlarged turbinte	Prurities ani 7
Foreign body removed from eye 29	Phimosis
Foreign body removed from hand. 2	Potts fracture 3
Foreign bodies removed from finger 5	Puncture wound, foot 6
Fistula 10	Puncture wound, finger 5
Fibrous tumor (neck) 1	Puncture wound, wrist 2
Fractured phalanges 4	P. O. hernia 4
Fractured inferior maxillary 1	Quinsy 12
Goitre 10	Ruptured blood vessel 3
Hemorrhoids 21	Rectal tumor 2
Hernia 17	Synovitis of knee 3
Hydrocele 7	Sebaccous cyst 3
Infected scalp 6	Stye 10
Infected nail 4	Single tenotemy 1
Infected toe 16	Sprained wrist 23
Infected lip	Sprained thumb
Infected scrotum 4	Sprained fingers 27
Infected hand	Sprained arm 8
Infected arm 2	Sprained ankle
Infected fingers	Sprained leg
Infected gums 3	Sprained hand
Infected foot 7	Sprained toe
Infected leg 2	Sprained foot
Insect bites 10	Sprained shoulder
Inflammation of the hamstring	Sprained elbow
tendon 3	Sprained back
Inguinial adenitis 2	Sprained muscles
Ingrown nails	Sprained knee
Tooth extraction109	Venereal sores
Tuberculosis of bone (fibula) 2	Vericose voins
Lacerated neck 2	Vericocole
Lacerated toe 7	Ulcerated tooth 33
Lacerated foot 6	
Medical Cases Treated at Dispens	sary From October 1, 1914, to
September 30, 19	
ooptomber oo, ro	•
Anaemia 48	Influenza
Arthritis 63	Intertrice
Acue 69	Incontinence urine
Adenitis 7	Insomnia
Asthma 23	Tenndia
Blepharitis 1	Lumbago
Bronchitis	
Burns 19	Larnygitis
Chilblains 5	Myalgia
Conjunctivitis	
Corns 33	
Cystitis	Noctural amissions
Coryza217	Nonhaitia
Constipation290	Old emprems
Colic 30	Onchitic
Colitis 40	Ostwomyclitis
Catarrh (nasal) 49	Dwarehood
Chancres 7	A JOIL MOUNT TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TOTAL TOTAL TO THE TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TO THE TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL T
	Psoriasis12
Chapped hands 40 Dog bite 7	Psoriasis 12 Palpitation 12 Pleurisy 12

Dermatitis	Pediculosis pubis 21
Diarrhoea	Prurtiw ani
Dysentery 2	Plumbism 1
Duodenal ulcers 2	Pharangitis
Davetaur uncere interest in the second	=
and desired to the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the territory of the terr	
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Eczema	Syphilis
Fallen arches	Scables
Fraunculosos	Stomatitis 40
Gonorrhoea	Sun burn 10
Gon. arthritis 10	Sore feet 42
Gastritis 9	Tonsilitis 92
Headache	Toothache197
Herpes 9	T. B. glands 9
Hyperacidity 3	Tape worm 8
Iritis 2	Torticollis 11
Indigestion	Urticaria 8
Urethral stricture 33	Ulcerated anus 1
Vitelligo 1	Morphinism 8
Adentis	Mental condition (obser.) 11
Anaemia 16	Mucous colitis
Arthritis 22	Migraine
Asthma 6	Malaria 2
Acute epidymitis 1	Neuralgia 8
Buboes 2	Organic heart trouble
Bronchial asthma 8	Palpitation
Burns 3	Pleurisy (
Bronchitis 27	Plumbism
Conjunctivitis	Pneumonia &
Coryza185	Rheumatism 7
Chronic constipation 5	Scables 8
Cervical adenitis 1	Scarlet fever (isolated)
Dermatitis 11	Dysentery
Endocarditis 2	Epilepsy
Medical Cases Treated at the Ho	spital From October 1, 1914, to
September	30, 1916.
	·
Gonorrhoea 5	Syphilis
Herpes	Stomatitis
Indigestion 5	T. B. glands
Influenza 24	Tonsilitis 7
Jaundice 6	Torticollis
Lumbago 31	Tuberculosis 49
Typhoid fever (isolated) 2	Venereal
a I I a a Treeded at the Hea	
Surgical Cases Treated at the Ho	•
September	30, 1916.
Appendicitis	Hernia
Amputated finger 1	Hydrocele
Circumcision 20	Infected nail
Concussion of the brain 1	Infected hand
Chronic Osteomyelitis 1	Infected toe
Dislocated metocarpal 1	Infected gums
Dislocated elbow 2	Infected scrotum
Deflected septum 1	Inflammation of hamstring tendon

Excision ingrown nail 19	Inflammation of tendon of foot 1
<u> </u>	
Eye enuc leation 1	Lacerated leg 3
Foreign substance removed from	Lacerated forehead 1
eye 5	Lacerated eyelid 2
Fistula 5	Lacerated lip 2
Fractured inferior maxillary 1	Lacerated finger 3
Fibrous tumor 1	Multiple abscesses 2
Furunculosis 16	Otitis media 10
Ganglion of tendon forearm 1	Old empyema 1
Hemorrhoids 10	Old gunshot wound 1
Orchitis 6	Old shoulder fracture 1
Potts fracture 3	Synooitis 1
Puncture wound, foot 1	Tenotemy 1
Quinsy 3	Synovitis knee 1
Rectal abscess 1	Tooth extraction 7
Sprained ankle 5	Tonsillectomy 7
Sprained foot 3	Thumb amputation 1
Sprained knee 5	Ulcerated tooth 6
Sprained back 4	Varicocele 16
Wrenched back 2	

## Table No. 1.

### MOVEMENT OF POPULATION.

#### ADMITTED.

	Year Ending September 30, 1915	Year Ending September 30, 1916
In institution October 1, 1914		456
Received from courts		196
Parole violators returned Parole violators returned Returned from insane hospital Returned for investigation	2 35	4 92 4

#### RELEASED.

	Year Ending September 30, 1915	Year Ending September 30, 1916
Released on parole. Released on conditional pardon	41   1	306 17
Leave of absence. Transferred to Washington State Penitentiary. Transferred to insane hospital. Died	7 2 2	10 4 1
Delivered to other authorities	14	14 9 5

Table No. 2. SHOWING COUNTIES FROM WHICH INMATES COMMITTED.

COUNTIES	Year Ending September 30, 1915	Year Ending September 30, 1916	Total
Adams Asotin Benton Chelalis (Grays Harbor). Chelan Ciallam Clarke Columbia Cowlitz Douglas Ferry Franklin Garfield	2 4 2 1 11 4 4 4 3 1 3	3 2 9 4 2 1 2 2	11 2 2 4 5 3 20 8 6 4 3 5
Grant Island Jefferson King Kitaap Kittitas Kilekitat Lewis Lincoln Mason Okanogan	1 122 5 7 4 15 8	57 1 13 12	8 1 179 6 20 4 27 8 1
Pacific Pierce Skagit Snohomish Spokane Stevens Thurston Wahkakum Walla Walla Whatcom Whitman Yakima	24 4 11 30 3 2 1 8 7 12 14	1 11 3 6 18 2 1 6 5 5	1 35 7 17 48 5 3 1 14 12 17
Totals	328	185	513

Table No. 3. SHOWING AGES GIVEN BY INMATES.

AGE	Year Ending September 30, 1915	Year Ending September 30, 1916	Total
15	1	1	2
16	7	3	10
17	19	ğ	20
18.	29	14	43
19	28	20	48
90	36	13	49
21	25	22	47
72	30	22	52
23	29	17	46
24	86	15	51
25	17	8	25
96.	18	19	37
7	18	-6	24
28.	19	Ř	27
79	12	Ă	16
10.	4	2	6
31	• • • • • • • • • • • • • • • • • • • •	2	i
Totals	329	185	513

Table No. 4. SHOWING CRIME OR OFFENSE OF INMATES.

CRIMES	Year Ending September 80, 1915	Year Ending September 30, 1916	Total
Adultery	1		
Arson, first degree	3	l	1 :
Arson, second degree	2	5	٠ .
Assault, first degree	4	<del>.</del>	ĺ
Assault, second degree		10	1
Bigamy	1	1	i -
Blackmafl		1	i
Burglary, first degree	65	22	l 8
Burglary, second degree	70	30	10
Burglary, attempted	2	1	
Carnal knowledge female child	1	8	
Conveying instruments into jail	1	Ì	1
Delinquency (re female)		ī	į.
Extortion	1	<del>.</del>	1
Porgery	45	13	1 1
Jambling	1	2	1
Grand larceny	102	76	13
Frand larceny, second degree	1	8	Į
Larceny from person	1	l <del>.</del>	I
Liquor to Indians		1	
ail breaking		l ī	1
danslaughter		1	
Murder, attempted	1	ī	1
Perjury	İ	i	1
Petty larceny	2	1 1	1
Rape	2	l	.1
Receiving stolen property	1		.1
Robbery	18	5	i
Robbery, attempted	8	4	1
leduction	2	l	.1
Sodomy		1	.1
Vhite slavery	1	1	1

Table No. 5. SHOWING EDUCATION OF INMATES WHEN RECEIVED.

EDUCATION	Year Ending September 30, 1915	Year Ending September 30, 1916	Total
Illiterate First grade (barely read). Second grade (read and write). Third grade Pourth grade Fifth grade Sixth grade Seventh grade Seventh grade Eighth grade One year high school. Two years high school. Attended college Attended universities	7 19 27 40 45 44 81 58 22	15 6 9 12 19 22 18 25 35 12 9	33 18 28 39 59 67 62 56 93 34 20
Totals	828	185	513

Table No. 6.
SHOWING HABITS OF INMATES BEFORE CONVICTION.

HABITS	Year Ending September 30, 1915	Year Ending September 30, 1916	Total
As to Intoxicants— Intemperate Abstinent No record	190 124 14	110 63 12	300 187 26
Totals	328	185	513
As to Tobacco— Users Non-users No record	261 58 9	178 11 1	484 69 10
Totals	328	185	513
Addicted Not addicted No record  Totals.	14 286 28 328	7 175 3	21 461 81 518
As to Cigarettes— Smokers Non-smokers No record	260 68 5	159 28 3	419 86 8
Totals	328	185	513

Table No. 7.
SHOWING OCCUPATION OF INMATES BEFORE CONVICTION.

OCCUPATION	Year Ending September 30, 1915	Year Ending September 30, 1916	Total
Actor	1		
Accountant	i		
Baker	1	5	
Barber	5	4	- 3
Blacksmith	ĭ	2	
Bookkeeper	7	5	1
Brakeman	2	ī	
Butcher	4	8	
Carpenter	5	6 1	1
Chauffer	10	9	19
Clerk	10	5	1
Doolt	14	5	19
Dishwasher	7	4	1
Drug clerk	2	1 1	
Electrician	2	2	
Engineer	14	6	2
Errand boy	5	1	
Farm hand	39	80	•
Fireman	8	3	. 1
Interpreter	<b>.</b>	1 1	
Jockey	2		
Laborer	70	37	10
Lather	• 3		
Lumberman	16	9	2
Machinist	3	8	•
Machinist helper	5		
Meterman	1		
Miner	5	8	
Movie operator	1		
Musician	i	2	3
Newspaperman	7	1 1	_:
None given	7	4 2	1
Painter	2	i	
PhotographerPlumber	7	2	
Policeman	'	ľi	
Porter	2	1 1	
Pressman	8	l i i	3
Sailor	9	l î i	10
Balesman	9	i å i	15
Sheriff, deputy	ĭ		- î
Sign writer	ż		•
Renographer	2	1	5
Structural iron worker	ī	l î l	9
Student	2	ايةا	į
Suit case worker	<del>.</del>	l i i	ì
Peamster	12	10	21
Cailor	2	3	7
Walter	3	i	- 4
Totals	328	185	513

Table No. 8.
8HOWING RELIGIOUS BELIEF OF INMATES.

RELIGION	Year Ending September 30, 1915	Year Ending September 30, 1916	Total
Protestant Catholic Jewish Greek orthodox Mormon Atheist None	89 6 4	111 45 5 4 1 2	203 134 11 8 1 6 50
Totals.	329	186	518

Table No. 9.

NUMBER OF INMATES IN EACH GRADE.
PERIOD OCTOBER 1, 1914, TO SEPTEMBER 30, 1916.

MONTHS				
MONIAS	First	Second	Third	Total
October, 1914	238	149	19	400
November, 1914	214	131	20	36
December, 1914	219	119	18	35
January, 1915	230	129	16	87
Pebruary, 1915	238	181	17	38
March 1915	288	139	18	39
April, 1915	241	145	20	40
May 1915	229	181	18	37
June. 1915	237	140	17	38
July, 1915	265	158	19	43
August, 1915	254	151	17	42
September, 1915	261	160	16	1 43
Oetober, 1915	255	152	17	1 42
November, 1915	250	149	17	1 41
December, 1915	270	158	19	1 44
January, 1916	256	149	17	42
February, 1916	248	188	16	40
March, 1916	230	180	15	37
April, 1916	222	128	16	36
May, 1916	217	121	16	35
June. 1916	209	114	17	84
July, 1916	201	110	16	30
August, 1916	199	112	15	32
September, 1916	180	110	15	80
Average	283	185	17	38

Table No. 10. SHOWING NATIVITY OF INMATES.

UNITED STATES	Year Ending September 80, 1915	Year Ending September 30, 1916	Total
labama	1	<u>-</u>	
rizona	1	1	. :
Palifornia	4	4	
olorado	5	2	
Donnecticut	ĭ		
elaware	ī		
District of Columbia	1		
Iawaii		2	
daho	1		
llinois	15	9	2
ndiana	7	7	1
OW&	12	7 9	19
(ansas (entucky	8	9	1
ouisiana			
faine	i	1	
faryland	î	•	
(assachusetts	ŝ		
fichigan	š	6	1
finnesota	22	8	3
dississippi	9	9	1
fissouri	3	2	
Iontana	16	5	2
ebraska	6	5	1
ew Hampshire	1		
lew Mexico	2	1	
lew York	29	9	3
orth Carolina	2	lil	
orth Dakota	ã.	ŝ	
)hio	12	5	1
klahoma	6	2	
regon	. 14	9	2
ennsylvania	9	5	1
hode Island	2		
outh Dakota	8	2	
ennessee	2	2	
exas	1	2	
Itah	i	†	
Vashington	79	40	11
Vest Virginia	<b>'</b> 7	l i i	11
Visconsin	10	12	2
Vyoming	ĭ		-
Philippines	ŝ	2	
Totals	828	185	51:

Table No. 11.
SHOWING CIVIL CONDITION OF INMATES.

CIVIL CONDITION	Year Ending September 30, 1915	Year Ending September 30, 1916	Total
Married Single Divorced Widowed	59 265 3 1	89 142 4	98 407 7 1
Totals	828	185	513

Table No. 12.
SHOWING COLOR OF INMATES.

COLOR	Year Ending September 30, 1915	Year Ending September 30, 1916	Total
White Negro Indian Japanese Brown	312	169	481
	7	5	12
	4	7	11
	1	1	2
	4	3	7

Table No. 13. SHOWING INDUSTRY OF INMATES.

INDUSTRY	Year Ending September 30, 1915	Year Ending September 80, 1916	Total
Had employment when arrested	104 217 7	76 99 10	180 816 17
Totals	828	185	518

Table No. 14. SHOWING INMATES PLEAS.

PLEAS	Year Ending September 30, 1915	Year Ending September 30, 1916	Total
Guilty	288 45	160 25	443 70
Totals	328	185	513

Table No. 15.
SHOWING DOMESTIC RELATIONS OF INMATES.

DOMESTIC RELATIONS	Year Ending September 30, 1915	Year Ending September 30, 1916	Total
Both parents living	163 47 75 48	94 25 41 25	257 72 116 68
Totals	828	185	513

Table No. 16.
SHOWING ARMY AND NAVY PRISONERS.

	PRISONERS	Year Ending September 30, 1915	Year Ending September 30, 1916	Total
Army Navy		7 6	8 5	10 11
	Totals	13	8	21

# Table No. 17. MONTHS OF INMATES ARRIVAL.

(Returns not included.)

MONTHS	Year Ending September 30, 1915	Year Ending September 80, 1916	Total
October	23	19	49
November		17.	42
December		24	49
January	26	20	46
Pebruary	29	10	39
March		22	60
April	88	15	48
<u>жа</u> у		10	80
June		14	48
jdy		15	46
August	21 28	10 9	81 87
Totals	828	186	513

Table No. 18.

SHOWING POPULATION OF INSTITUTION FOR EACH MONTH.

MONTHS	Year Ending September 30, 1915	Year Ending September 30, 1916	Total
October	456		45
November		485	83
December		424	82
January		444	84
February		449	86
March		415	89
		440	88
		850	82
	1 772	858	80
June		364	88
July			
August		356	81
September	428	361	78

Table No. 19.
TERMS OF SENTENCE OF INMATES.

SENTENCE	Year Ending September 30, 1915	Year Ending September 30, 1916	Total
Four years and costs		1	1
Indefinite	6	5	11
8ix months	2		2
Six months to 1 year	6	1	5
Six months to 18 months	3	5	6 8
Six months to 3 years.		i	i
Six months to 5 years		ŝ	
Six months to 10 years	3		3
Six months to 15 years	22	18	35
Six months to 20 years		5	8
Eight months to 15 years	' <u>2</u> 1		2
Nine months to 20 years		• • • • • • • • • • • • • • • • • • • •	1
Ten months to 15 years		1	î
Eleven months to 15 years			ī
One year flat	6	9	15
One year to 13 months			1
One year to 2 years	4	4	8
One year to 3 years	5 2	3 1	8 3
One year to 1 year and 1 day	i	1 1	1
One year to 5 years	16	i i	17
One year to 7 years	ĭ	<i></i>	i
One year to 7a years	2		2
One year to 10 years	12	8	20
One year to 20 years	22	14	36
One year to 14 years	1 152	86	1 238
One year to 15 years	132	3	200 5
Eighteen months to 5 years	2		2
Eighteen months to 10 years		1	ī
Eighteen months to 15 years	1	2	3
Two years	1		1
Two years to 3 years	1		1
Two years to 5 years	1 3	2	1 3
Two years to 15 years		3	19
Two years to 20 years	3		3
Two years to 7 years	1		ì
Two years and a half to 7 years	1	1	2
Two years and a half to 10 years	1		1
Two years and a half to 15 years	2	• • • • • • • • • • • • • • • • • • • •	9
Three years to 5 years	2		2
Three years to 10 years	í		ī
Three years to 15 years		6	Ĝ
Three years and a half to 15 years	1		ī
Pive veers to 51 years		-	
Five years to 7 years		1	1
Five years to 10 years	1 2	2	3
TH	z		3
Five years to 15 years		i i	3
Five years to 15 years	······	1	1

Table No. 20.

SHOWING NATIVITY OF PARENTS OF INMATES.

NATIVITY .	Year Ending September 30, 1915	Year Ending September 30, 1916	Total
Parents Americans Pather American		60 19	202 37
Mother American Parents foreign	82	20 87	39 119
Father foreign Mother foreign  Parents unknown	17	10 15 10	27 32 31
Pather unknown	7	10 4	17 8
Totals	828	185	518

Table No. 21.

	Year Ending September 30, 1915		Year Ending September 30, 1916		Total	
COUNTRY	Father	Mother	Father	Mother	Father	Mother
United States	175	188	186	176 1	360 7	35
Argentine Canada Denmark	1 13 1	1 12 1	17 1	12	1 30 2	2
England France Finland	9 2 4	8 1 8	11 8 3	7 2 4	20 5 7	1
Germany Greece Holland	14 4 1	16 3 1	15 4 1	14 4 1	20 7 2 2	a
Hungary [taly [reland	1 6 7	1 5 6	1 5 9	1 6 9	2 11 16	1
Japan Norway Mexico	1 6 1	1 3	1 4 2	1 4 2	2 10 3	
Poland	1 8 1	1 4	2 4	. 5	3 7 1	
Seotland Spain Russia	6 1 2	1 4	5 1 3	5 1 2	11 2 5	1
Portugal	265	270	280	237	1 545	52



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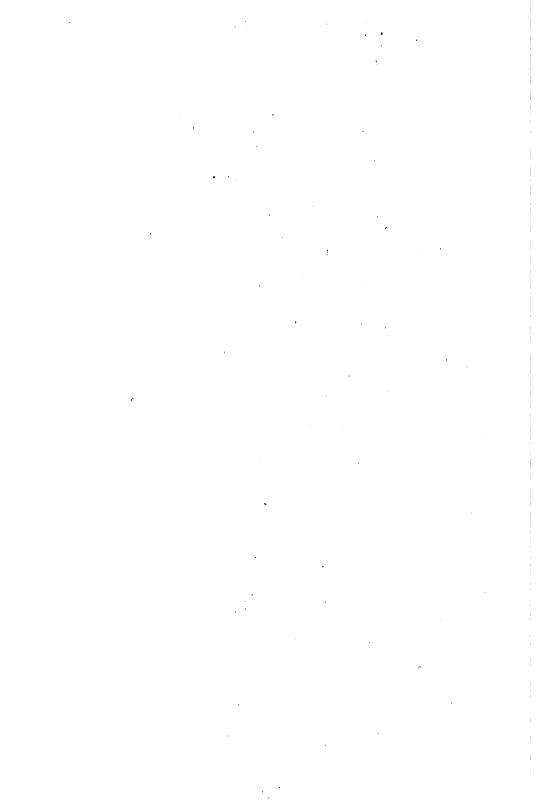
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## STATE OF WASHINGTON

# **REPORT**

OF THE

# State Inspector of Coal Mines

Biennial Period Ending December 31, 1916

JAMES BAGLEY, Inspector SEATTLE

Seventeenth Biennial Publication

OLYMPIA:
FRANK M. LAMBORN PUBLIC PRINTER
1917

## LETTER OF TRANSMITTAL.

Office of the State Inspector of Coal Mines.

To his Excellency Ernest Lister, Governor, State of Washington.

Six: I have the honor to submit herewith my second biennial report as State Inspector of Coal Mines for the biennial period ending December 31, 1916, the same being the Seventeenth Biennial publication.

Respectfully submitted.

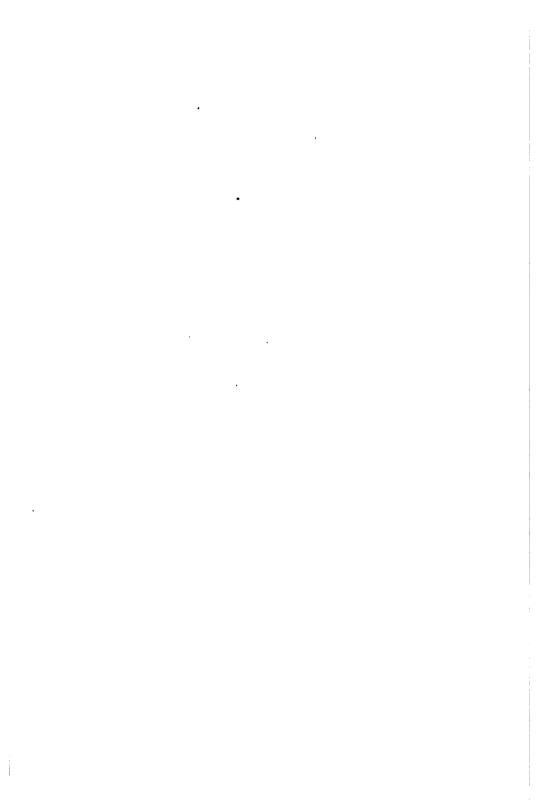
JAMES BAGLEY,

State Inspector of Coal Mines.

Seattle, Wash., January 1, 1917.

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Mine Rescue Truck, U. S. Bureau of Mines, Scattle Station.

#### INTRODUCTION AND REVIEW.

The coal production in the state for the past two years showed a marked decrease over the previous two-year period. This showing is principally due to the small production in 1915, which was 631,030 short tons less than in 1914, a decrease of 21 per cent over the previous year. The production for 1915 is the smallest of any year since 1899 and was due to the mild winter of 1914-1915, the general pushness depression in all industries throughout that year, and the increased consumption of fuel oil. The production for the state in 1916 is more encouraging; 3,019,600 short tons were mined, an increase of 610,269 short tons over 1915. The production for the biennial period 1915-16 was 5,428,931 short tons, against 6,872,008 short tons for the previous two years, a decrease of 1,443,077 short tons, or about 21 per cent decrease for the biennial period. The average value of coal at the mine per short ton was \$2.24 in 1915 and \$2.37 in 1916. The total value at mine in 1915 was \$5,393,524, and in 1916, \$7,155,317.

While the coal production for the past two years shows a marked decrease, the coke production at the mines of the state shows a small increase for both years, 182,417 short tons being produced for the two-year period, an increase of 28,112 short tons over the previous biennial period. Ninety-three thousand seven hundred twenty-two short tons were produced in 1916, this being the largest production for any one year in the history of the state. The average value of coke at the mine per short ton was \$5.32 in 1915, and \$5.20 in 1916. The total value at the mine for the two-year period was \$958,962. Reports received from the customs district of Washington show that about 50 per cent of the coke produced in the state is exported to British Columbia.

The total number of employes in the coal industry was 4,828 in 1915, and 4,746 in 1916, an average of 4,787 for the two years. The mines worked an average of 165 days in 1915, and 218 days in 1916.

While the two-year period from July, 1914, to July, 1916, was one of the worst in recent years for the coal industry of the state, the last half of 1916 shows a marked revival in the coal industry. Fuel oil, which is the greatest competitor of Washington coal, has steadily advanced in price until now it is more economical for the railroads and other large consumers of fuel to use coal instead of fuel oil. Present indications are that the coal industry will regain much of the business lost in recent years on account of the low price of fuel oil, and the mines that were temporarily closed during the depression in the coal industry in the past few years are again being reopened or are preparing to do so. The Northwestern Improvement Company is opening two new mines in the Roslyn-Cle Elum field and which

promise to be steady producers in the next few years. The same company is opening a mine two miles north of Kanaskat, on a branch of the Northern Pacific Railroad. The Independent Coal and Coke Company has taken over the mine formerly known as the Cle Elum shaft and has driven a rock slope 700 feet to the Roslyn seam. This mine promises to be a steady producer. The Cokedale mine, in Skagit county, which has been closed for a number of years, is being reopened under the management of F. A. Hill, a well known coal operator of this state. Take as a whole, the outlook for the future in the coal industry is bright, and all connected with the industry are very optimistic as to the future.

#### FATAL ACCIDENTS.

There were forty-five persons accidentally killed in and about the mines in 1915, and twenty-one during 1916, a total of sixty-six fatalities for the biennial period. The mine explosion at Ravensdale on November 16, 1915, was responsible for the death of thirty-one persons, a full report of the explosion being included in this report. The principal contributing causes outside of the Ravensdale explosion taken for the two-year period are: Falls of rock and coal, eleven; flying pieces from blasts, including miss-shots, four; electrocuted, four; run over by cars, locomotives, or runaway trips, three.

The initial cause of the Ravensdale explosion will never be known, but it was unquestionably propagated by means of coal dust. It is my belief that it started from either an overcharged shot or from an explosion of gas caused by some one of the men in the chutes igniting some gas. An inspection of the Ravensdale mine was made by this department about one month before the explosion. At that time it was noted that considerably more dust than usual was present in the new workings where most of the men were working at the time of the explosion. This condition was discussed with the mine foreman and superintendent at that time and preparations were made to take care of the condition. From the testimony at the inquest the chutes made more dust as they advanced, and although the officials were making efforts to take care of the dust, the precautions taken were not adequate to take care of the conditions at the time the explosion occurred. This is not said in any spirit of criticism of those in charge of the mine, for it is realized that the dusty conditions at the Ravensdale mine at the time of the explosion had come on in a few weeks and were something they did not have previous to that time. Batteries of chutes were worked out on both sides of the battery of chutes that were working at the time of explosion. When working these batteries no sprinkling had been done and no sprinkling had ever been done in the Ravensdale mine before turning the battery of chutes which was working at the time of the explosion, and no sprinkling had ever been done on the pitch until two days before the explosion. It was brought out at the inquest that on at least one occasion a fireboss had given

matches to one of the miners in the places where safety lamps were used to light a shot when he was not present. It is my impression that such conditions would not exist if mine officials were required to have certificates, and it is hoped that the time will soon come when certificates for mine officials will be one of the requirements of the mine law.

A table showing the number of tons mined to each fatal accident at each mine in the state for the period 1905-1916, inclusive, will be found included in this report. The best showing is made by the Roslyn Cascade Coal Company at Roslyn, said company having mined 615,520 short tons without a fatal accident. At the mines at which fatal accidents have occurred, the Roslyn Fuel Company's Beekman No. 2 mine has the best record, with 430.520 short tons per fatal accident. The Northwestern Improvement Company, Cle Elum mine, and the Pacific Coast Coal Company, Ford mine at New Castle, follow in order. The average tonnage for the state per life lost for the eleven-year period is 121,858 short tons. This is not a very good showing, and while it can be said that the operating conditions in Washington are not as favorable as in most coal producing states on account of the heavy pitches and complex mining conditions, after a careful study of the statistics and a knowledge of conditions, one factor in the operation of the mines is brought to my attention, namely, that where the inspection of the working faces is frequent less accidents occur. By the employment of shot-firers accidents caused by explosives will be less. Uniform systems of timbering should be adopted wherever possible and rigidly enforced. Occasions have come to the inspector's notice when a rule was established and violated. For the safety of all engaged in mining, discipline is necessary and the miners themselves should insist that the offender be punished.

#### NON-FATAL ACCIDENTS.

A total of 706 non-fatal accidents occurred in 1915, and 1,035 in 1916. This includes all accidents for which claims for compensation have been made to the Industrial Insurance Commission, and includes all accidents with a time loss of two and one-half days or more. A table showing in detail the number of tons mined to each man injured at each mine in the state, average time lost per man returned to work, and the number of employes to each man injured, is given in this report and will be of interest to those who wish to go into the study of mine accidents. Attention is also called to the table showing the percentage of non-fatal accidents by leading causes, a study of which will help any mine official by assisting him where to look for the principal cause of his accidents.

The average time loss of the injured returned to work in days was 26.05 per non-fatal accident in 1915, and 23.19 per non-fatal accident in 1916. Three thousand eight hundred sixty-one short tons were produced in 1915 to each injury, and 3,293 short tons in 1916. One man was injured to 4.6 men employed in 1916. These figures should bring

home to the mine operator the necessity of a more frequent inspection of the working faces, where most of the accidents happen.

#### LABOR CONDITIONS.

A new agreement was entered into between the Washington Coal Operators' Association and District No. 10, United Mine Workers of America, for the two-year period extending from September 1, 1916, to August 31, 1918. Contracts were signed with most of the independent companies for the same period. At the present time over 90 per cent of the miners of the state are affiliated with the mine workers' organization and come under their industrial contract. An increase over the old scale was granted of 3 cents per ton and 3 per cent on all yardage and dead work. An increase of 5 per cent was granted those working by the day. Those receiving the lowest wages were given the benefit of this raise over the higher paid workers.

#### STRIKES.

The Grand Ridge mine at Issaquah, which was closed in November, 1914, when the company refused to sign an agreement with the mine workers' organization, was reopened in April, 1916, by the Andrew Kennedy Company, which signed an agreement with the miners' organization.

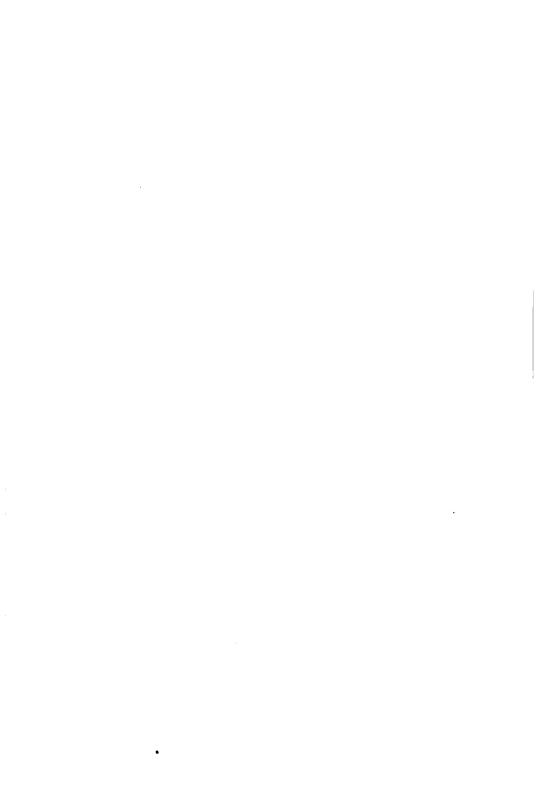
The Durham mine was shut down in March, 1916, when a demand was made for recognition of the mine workers' organization. An agreement was reached and the mine resumed operation after a shutdown which lasted three weeks.

The No. 5 mine at Roslyn was idle three weeks in June, 1916, on account of a controversy between the miners and the mine foreman. The mine foreman was dismissed and the miners fined one dollar each for stopping work in violation of their agreement. The money collected was turned over to the committee in charge of the Mine Rescue and First Aid Meet to be used in conducting the meet.

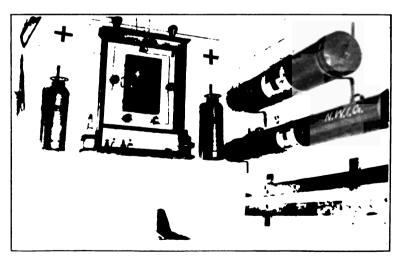
#### MINE RESCUE AND FIRST AID TRAINING.

Two hundred ninety-four men have been trained in mine rescue and first aid at the Seattle station maintained by the Bureau of Mines for that purpose during the past two years.

The annual Mine Rescue and First Aid meet was held at Cle Elum in July, 1915. The team from No. 6 mine, Northwestern Improvement Company, won first prize in the mine rescue contest; the team from No. 7 mine of the same company won first prize in the first aid contest. The 1916 meet was held August 19, at the Tacoma Stadium, twenty-two teams from the different camps participating. The team representing the Roslyn Fuel Company won first prize in the mine rescue contest, and a team representing No. 7 mine, Northwestern Improvement Company, won the first prize in the first aid contest. These state meets are held annually and much enthusiasm is shown by the different teams in this work. The miners' organization works in harmony with the mining companies in encouraging this work.







First Ald Stations, No. 5 and No. 7 Mines, Northwestern Improvement Co., Roslyn-Cle Elum Mines.



Teams representing the Pacific Coast Coal Company, Carbon Hill Coal Company, and the Roslyn Fuel Company were sent to the Panama-Pacific International Exposition to participate in the national contest held in September, 1915. All of the teams made a good showing. The Roslyn Fuel Company's team took second place in the mine rescue contest, competing with teams from all sections of the United States.

A rew mine rescue truck was added to the equipment at the Seattle station in the past year which will add much to the efficiency of the station in answering calls that may be made and in training work at the mines.

#### MINING LAWS.

No progress was made during the session of the legislature in 1915 in having any new mining legislation enacted. It is conceded by all who are engaged in the coal mining industry that the present laws regulating the operation of coal mines are inadequate and that new legislation is very badly needed. Realizing that no progress could be made with new legislation if the coal operators and miners were not brought together on this matter, it was suggested by the mine inspector that a committee of operators and miners be selected to work with the mine inspector in drafting a new mining code. While no action was taken along the lines suggested, a prepared code was submitted by the mine inspector to both parties for their consideration. After meeting both parties several times and eliminating some of the objectionable features, the code was finally accepted by both the miners and operators, who agreed to support it. It will be submitted to the legislature and I hope it will be given favorable consideration. main features of the proposed law are: That a board of examiners be appointed by the Governor to pass on the qualifications of candidates for the position of mine inspector; definition of the duties of mine inspectors; this board of examiners with the addition of the mine inspector to pass on the qualifications of candidates for the positions of mine foremen, assistant mine foremen and firebosses, and grant certificates to all whom they find qualified as prescribed in the law; defining the duties of operators and mine officials and providing penalties for the violation of same; regulations for the installation and use of electricity in mines; prescribing regulations to be observed in mines and in mines worked with safety lamps. A standard set of mine rules and penalties for the violation of same and covering the duties of all employees is provided in the new code. If the proposed code is enacted into law and its provisions complied with it will make conditions much safer in the coal mines of this state and should cut down accidents materially.

#### STATISTICS.

ton (2,000 pounds) and is used throughout and is meant when the

word ton is used, with the exception of the data on imports and export as reported by the collector of customs, port warden of Seattle, at harbormaster of Tacoma, when the long ton (2,240 pounds) is used. The total tonnages given as the quantity of coal produced or to outputs at the individual mines represents only the usable fuel. Refusalte and bone brought out of the mine or picked or sorted from to coal in the tipple and refuse from washeries and dry cleaning planare not considered as part of the quantity of coal produced. The to value of the coal is the sum of all the values reported by the individual operators, and the average value for the county or state as the campa be is the total divided by the total tons.

## NEW MINES OR OLD MINES REOPENED DURING THE YEAR 19

After being abandoned for over twenty years, the Durham mi No. 2 was reopened by the Durham Colliery Company and is again umbered among the producing mines.

Eureka mine, located near Cumberland, King county, was reopen and operated for a few months by the Cassidy Coal Company.

The Wright mine, above Roslyn, was operated for a few months this year.

The following mines were not operated this year and are permently abandoned or temporarily closed:

Grand Ridge mine, Central Coal Company, temporarily closed Hyde mine, Hyde Coal Company, temporarily closed until draina tunnel is driven from Green river.

Mine "B," Pacific Coast Coal Company, closed until market of ditions improve.

The Lincoln mine, Lincoln Coal Company, and Kopiah mine, Lev County Light and Power Company, closed.

Pittsburg (No. 8) slope, American Coal Company, was permanent abandoned and all material removed.

The following companies have changed names:

Washington Coal & Mining Company to Empress Coal Company
Montezuma Coal Company to Washington Manganese, Coal at
Copper Company.

## NEW MINES, OLD MINES REOPENED, MINES ABANDONE TEMPORARILY CLOSED OR NOT HEARD FROM SINCE LAST REPORT, 1916.

Grand Ridge mine, reopened; No. 1 mine, Durham, reopened Hyde mine, Cumberland, reopened; Carbon Coal and Clay Compa operated new Daly slope; National Coal Company drove new slop Independent Coal & Coke Company, Cle Elum, is developing mine; Freeburn Coal Company, Packwood, has a new slope, but described the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of

not come under inspection; Salzer Valley mine heard from, but does not come under inspection.

Black River Coal Company not heard from; Eureka mine was closed; No. 14 mine, Black Diamond, closed after working nine days of this year; Dip mine, Northwestern Improvement Company, Roslyn, was closed; Melmont mine, of the same company, closed; Ravensdale mine closed after the explosion. Have not heard from the Chehalis Coal Company, Bucoda Coal Company, and the Washington Anthracite Coal Company, all of which do not come under inspection.

The following companies have changed names:

Scranton Coal Company to Ozark Coal Company.

Central Coal Company to Andrew Kennedy.

Empress Coal Company to Centralia Coal Mining Company.

American Coal Company to South Willis Coal Company.

Issaquah and Superior Coal Mining Company to the King Coal Company.

#### CONCLUSION.

In conclusion I wish to thank both the mine officials and miners for their cooperation and good will toward this department during the past four years.

Acknowledgment is also made to the Industrial Insurance Commission for data furnished in regard to accidents; to Mr. S. H. Ash for his loyal service as deputy inspector and assistance in compiling the statistics for this report. Acknowledgment is made to Professor Henry Landes, state geologist, for the use of some of the plates used in this report.

#### SUMMARY.

The Following Summary for the Years Ending December 31, 1914, a 1915, is Here Presented.

SUMMARY	1914	1915
Number of mines and openings of all kinds	58	
Total production of coal (short tons)	3,040,361	2,400
Total value of coal at mine	\$7,142,084	\$5,398
Average value of coal at mine, per ton	\$2.85	40,00
Total production of coke (short tons)	78,573	86
Total value of coke at mine	\$404,126	847
Average value of coke at mine, per ton	\$5.15	, T
Total number of inside employes	4.383	
Total number of outside employes	1,264	1
Total number of employes	5,647	
Average number of days operated	* 200	
Yearly production per employe (short tons)	556	
Daily average short tons per employe	2.69	
Total number of men accidently killed	17	ĺ
Total number of non-fatal accidents	831	
Total number of widows	9	1
Total number of orphans	26	1
Number of tons mined to each life lost	178,845	5
Number of tons mined per non-fatal accident	3,659	1
Number of lives lost per 1,000 employes	8.01	l

^{*} Found by dividing the sum of the products of the total number of men employed and days worked at each mine by the total number of men employed.

† Three killed outside.

### PRODUCTION OF COAL BY COUNTIES.

COUNTY	1914	191
King Kittitas Lewis Pierce Thurston Whateom	1,042,607 1,287,564 87,558 568,841 112,189 6,602	84 87 7 45

#### PRODUCTION OF COKE BY COUNTIES.

COUNTY	1914	191
Pierce	78,573	8

1						٠					1			1	1	
NAME OF COMPANY	No. of Mines	Name of Mine	Town	Oounty	Tons of Coal Shipped	Bold to Em- ployes and Local Trade	Used for Power	Oharged Into Coke Ovens	Total Coal Pro- duction	Coke Pro- due- tion	Days Oper- ated (a)	In side Em- ployes 1	Out- aide Em- ployes	Killed	Wid-	op, ne
Black River Coal Company(f) Carbon Coal and Clay Co		Black River Bayne	RentonBayne	King	285,14	208	5,670		265 50,397		908	8	19	(g) 1	1	•
Cateldy Coal Company (b) Denny-Renton Clay & Coal Co Denny-Renton Clay & Coal Co Durham Colliery Company	~ ¢) ~ ~ ,	Fureka Nos. 1 & 2 Denny-Renton No. 2 Durham	Cumberland. Taylor Renton	King King King	7,157	85 85 85 85	18,973		4,500 21,380 9,822 18,854		852	<b>3</b> 55 €	5 - 8			
Hyde Coal Company (c)		Issaquah Sunset	Cumberland. Issaquah	King		25,1	1,336		5,24 173,09 898,09		ខន្ត	128	35	F		
Northwestern Improvement Co Pacific Coast Coal Company Pacific Coast Coal Company Pacific Coast Coal Company Pacific Coast Coal Company		Ravensdale No. 14 No. 11 Cannon Ford	Ravensdale Bik Diamond Bik Diamond Franklin	King. King. King. King.	100,062 14,484 128,061 3,582 27,114	1,98 84 171 171 718	14,808 8,640 1,487 10,812		124,347 44,512 133,696 5,198 238,343		206 1 1 4 6 90 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>85888</b>	84842	88	8	<b>5</b> 5
Puget Sound Traction, Light & Power Company Porahontas Coal and Coke Co. Scranton Coal Company		Renton Porahontas Navy	Renton Palmer	King King	107,317 20,604 1,060	8,411 180 20	10,220 1,297		120,948 22,021 1,098		245 288 14	282	\$ 62 52	F		
Totals	18				768,605	18,660	62,662		844,966		2,888	1,296	3	18	ह्य	7
Northwestern Improvement Co Northwestern Improvement Co Northwestern Improvement Co	61-1-10	No. 6 & Dipt Number 3	Roslyn. Ronald Roslyn.	Kittitas Kittitas Kittitas	122,315 149,972 82,920	8,238 128 22.1	11,908 5,085 8,714		140,457 156,570 86,763		1212	25.00	222	ေ	60	-
Northwestern Improvement Co Northwestern Improvement Co Roslyn Cascade Coal Company.	01 r	Cle Flum.	Ck Elum Ronald	Kittitas	88.8 8.8 8.8 8.8 8.8	1,092	1,149		26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08 26,08		1615	8 <u>5</u> 25	881,			
Roslyn Coal and Coke Co Roslyn Phel Company Roslyn Fleel Company T. B. Wright & Sons		Beekman No.1 Beekman No.2 Summit	Beckman Beckman Cle Elum	Kittitas Kittitas Kittitas Kittitas	128,882 10,030 13,108	916 1,579	6.639 2.539 2.539 2.539 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54		136,387 61,515 15,041		8 2 3 2 8	:85 <b>2</b> -	8×1×			
Totals	22				198,088	18,864	34,357		879,062		1,86	1,882	152	80	8	-

COAL MINING STATISTICS TON THE VEAN 1810.

*Tonnage in short tons. (a) Day of eight hours. (b) All data given that could be obtained. (c) Driving rock tunnel. (f) Less than ten men employed and no other data obtainable. (g) Killed outside. † Dip operated two months.

		Coa	Coal Mining St	Statistics for the Year 1915*-Concluded	or the	Year	1915*_	Conclu	Jed.							ļ
NAME OF COMPANY	No. of Mines	Name of Mine	Town	Oounty	Tons of Coal Shipped	Sold to Employes and Local Trade	Used for Power	Charged Into Ooke Ovens	Total Coal Pro- duction	Total Coke Pro- due- tion	Days Oper- ated (a)	In stide Em-	Out- side Em- ployes	Killed	Wid-	og- Fo'nd
Chehalis Coal Company (f)		Leonard's  Number 8  Empress  Ford's Prairie  Number 1  Number 1  Number 1  Number 1  Number 1	Obehalis Ladd Centralia Centralia Centralia Mendota Moplah Koplah Obehalis	Lewis Lewis Lewis Lewis Lewis Lewis Lewis Lewis Lewis Lewis	3, 333 3, 043 36, 043 36, 044 4, 877 4, 866 4, 866	2,000 277 286 296 20,000 80,000	148 600 910 1,904 58 494 460		2,000 8,476 5,144 4,677 4,950 1,308 9,417 8,518		118 123 110 110 100 123 123 123 123 123 123 123 123 123 123	250 80 0 L L	H4000000			
Totals	•				62,489	11,306	4,464		78,250		1,325	106	83		T	
American Coal Company	нопини	Number 10. Carbonado Gale Creek Melmont Burent Champion	Spiketon Oarbonado Wilkeson Melmont Burnett Wilkeson	Pierce Pierce Pierce Pierce Pierce	15,088 157,508 19,158 16,747 79,677	26.1 197,1 198 8 8 8 17	2, 75, 75, 75, 75, 75, 75, 75, 75, 75, 75	31,984 1,24,076	17,748 199,469 19,586 18,446 84,461 1,186	19,178	256 145 145 197 70 311	1841814	281112120	<b>3</b> -	60	F ::::::
Waterington manganese, Coal & Copper Company (e) Wilkeson Coal and Coke Co	44	Marcy	Fairfax	Pierce	6,010 32,384	813	8,560	10,720	16,745	6,707	2 2	118	13 E	(g)		
Totals  Bucoda Coal Company (b)	7	Bucoda	Bucoda	Thurston.	827,600	8,680		1140,750		98 :	1,809	818	<b>8</b>	80	80	۲.
Totals	1	TORO-NO. T		Tumpron.	107,776	e 26	8,742		112,086		191	2 2	8 8	1 -	-   -	-   -
Washington Anthracite Coal Company (f) Whatcom County Coal Co		GlacierBlue Oanyon	Glacier Parke	Whatcom.	6,255				6,255		ន្ត្	18	69			
Totals					6,266			<del>: : :</del>					-			
Grand Totals	28			4	2,008,586	49,067	125,482	1140,750	2,409,881	88,686	7,2113	890.	1,146	(3) <b>48</b>	82 ;	8,

Average Short Tons Per Mine Per Day; Average Short Tons Per Employe Per Year; Average Short Tons Per Table Showing Number of Days Operated; Total Number of Employes Per Mine; Short Tons Per Mine Per Year; Employee Per Day, at Each Mine, 1915.

NAME OF COMPANY	County	Average Days Operated	Total Number of Em- ployes	Short Tons Per Mine Per Year	Average Short Tons Per Mine Per Day	Average Short Tons Per Employe	Average Average Bhort Short Tons Per Tons Per Employe Employe Per Year Per Day	
Black River Coal Company—Black River (e).	King			385				
	King	202	<b>38</b>	50,397	246	208	2.80	
Cassidy Coal Company—Fureka Mine	King			500				
Clay and Coal Company-Taylor.	King		28	21,880	35	895	***	_
Clay and Coal Company-Renton.	King		14	8.8	<b>X</b>	302	2.53	
ry Company.	King	-	\$	18.854	88	85	8	_
and Superfor Coal Mining Company	King	E	174	12,04	99	281	8.70	_
J Company	King	-	8	9,326	\$	320	1.12	_
mprovement Company-Ravensdale	King		158	124,347	\$	813	3.86	
Coal Company - Mine No. 14-Black Diamond.	King		148	44.512	404	30	2.75	_
	King		418	188,686	916	319	2.19	_
Coal Company-Cannon Mine-Franklin.	King		143	5,196	306	8	.88	_
Coal Company-Ford Mine-New Castle	King		8	238,343	1,286	787	8.4	
"raction, Light and Power Company-Renton Mine	King		217	120,948	4	792	2.2	
and Coke Company,	Kfng		#	22,021	92	200	1.74	
Scranton Coal Company - Navy Mine	King	7	\$	1,098	78	2	5.1	
- Attended to the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the		4 166	920 1	000 110	5	927	8	_
		3	1,0	94,	ğ	20.	1A:2	_
Northwestern Improvement Company-No. 6 and Dip (b)	Kittitas	124	274	140,467	1,138	513	4.18	
Improvement Company-	Kittitas	117	2 2 2 3	156,570	1,330	<b>3</b> 2	7.73	_
Improvement Company-	Kittitas	8	186	86,768	ğ	25	4.46	
Improvement Company	Kittitas	711	208	114,668	8	208	8.	
- 2	Kittitas	119	188	210,08	248	19	3.88	_
Roslyn Casende Coal Company—Nos. 1 and 2 (a).	Kittitas	151	105	71,638	+1.4	88	3:1	_
and Coke Company-Plan	Kittitas	<u>8</u>	18	7,828	4	404	8.38	
Company-Beekman No. 1	Kittitas	191	126	136,387	883	874	5.33	-
Company Beekman	Kittitas	149	80	61,515	413	<b>2</b> 8	5.29	
	Kittitas	56	18	15,041	156	213	88.	_
T. B. Wright & Sous	Kittitas	81	65	88	8	72	8.8	
The County		181	1	900 000	1	8	-	
				100	5	3		
Jose not include onlice workers. I Found by dividing the sum of the products of the total number	he products o	the tot	al number of n	of men employed and days worked at	nployed a	nd days w	worked at	

each mine by the total number of men employed. (a) All mines. (b) Dip operated two months. (e) None given, less than ten men employed.

Table Showing Number of Days Operated; Total Number of Employes Per Mine; Short Tons Per Mine Per Year;

NAME OF COMPANY	County	Average Days Operated	Total Number of Em-	Short Tons Per Mine Per Year			Average Short Tons Per Employe
			Per Mine*		Per Day	Per Year	Per Day
Cheballa Coal Company (e)	Lewis			2,000			
East Oreek Coal Company-Ladd Mine.	Lewis	811	<b>6</b> 2	8,476 5,144	# 85	£ 3	8.8
Fords Prairie Coal Company	Lewis	81	<b>00</b> (	1,677	<b>8</b> 8 §	92.5	4.7
Mendota Coal and Coke Company	Lewis	28	8 =	4.950	3 18	<b>3</b>	2.8
Pennsylvania Coal Company	Lewis	198	6	1,308	25	145	3.8
Sheldon Coal Company Superior Coal Company	Lewis	287	g 71	8,518 8,518	88		. 63 88 88
The County		+ 188	138	78,259	8	573	4.16
		,	1			55	9
American Coul Company	Plerce	E 8	8 3	17,743	3 6	8 3	8.5
Carbon In Control Company—Carbonado Mines (a)	Pierce	145	28	19,586	185	8	2.33
Northwestern Improvement Company-Melmont Mine.	Pierce	88.5	28 5	18,446	8 8	3	 
Pacific Coast Confloany—Burnett Mine	Pleme	<u> </u>	20.2	196	2 5	3 5	2.14
The Fairfax Mine Incorporated	Plerce.	311	7.	20,684	8	22	0.8
Washington Manganese, Goal and Copper Company (d)	Plerce	\$ \$	5 ž	16,745	<b>로 &amp;</b>	ē	\$ 6 6 6 6
Wilkeson Coal and Coke Company	rierre	8	B	110, 200	ğ	5	8.4
The County		+ 285	1,179	999'997	140	416	1.71
Washington Union Coal Company—Tono Mine	Thurston	157	104	112,096	71 <b>4</b>	1,078	98.9
	- 1						
The County		+ 157	ğ	112,006	<b>7</b> .	1,078	98.98
Whatcom County Coal Company-Blue Canyon Mine.	Whatcom	222	19	6,256	88	8	1.48
Washington Anthracite Coal Company (e)	wnstcom						
The County		+ 255	91	9,226	88	820	1.48
The State		+ 100	7 800	0 400 001	50	904	8.8

# DETAILED SYNOPSIS OF FATAL ACCIDENTS OCCURRING IN THE STATE OF WASHINGTON FOR THE YEAR 1915.

January 11-Puget Sound Traction, Light and Power Company, Pete Draskovich, Montenegrin, age 20 years, single, occupation timberman helper. Killed in the Renton mine on the morning of January 11, 1915. The deceased was employed as a timberman helper and was working on the 11 o'clock shift with Mike Bilovich, retimbering the Ninth South gangway. The custom at the Renton mine is for the timbermen to work in pairs, but on this particular night the foreman had sent an extra man along. Bilovich and the extra man were working together, and Bilovich, who was the leader of the gang, sent the deceased out about fifty feet from where he was working to remove some dirt from behind a leg on the low side of the gangway so they could replace the leg with a new one. The electric feed line, which carried 550 volts and runs the electric hoists on this level, is carried on the low side of the gangway and is fastened to the leg of the gangway sets from twelve to eighteen inches below the collar. Just before the accident happened the deceased came up to where the other men were working and borrowed the steel bar they were using, and went back to the place where he was working. About two or three minutes later his partners saw a flash out where the deceased was working, and they ran out to see what happened. The feed wire was broken and lying on the ground and the deceased was lying across it. One of his partners tried to pull him off the wire, but as the track at this point was covered with water he got a shock as soon as he touched him. The other man ran out of the gangway to a switch about 300 feet from the point where the accident occurred and cut off the current. He came back and tried to resuscitate the deceased, who was probably dead before the current had been cut off. The exact position of the deceased could not be determined when the accident happened, but judging from the position he was in when found he must have been between the wire and the rib, and while using the steel bar he received a shock and fell, carrying the wire with him. When found he had the bar tightly gripped in his hands.

At the hearing held to inquire into the cause of the accident the following was brought out: The only experience of the deceased as a miner was in the Renton mine, where he had worked for three or four months about a year previous to this accident. He had been away from the Renton mine until a few days before the accident, when he was employed on this work. He was unable to speak any English and evidently did not know the danger of coming in contact with the live feed wire. His partner, who was one of his countrymen, testified that he had repeatedly warned the deceased of the danger from the feed line, but the deceased did not seem to realize the danger.

The conclusion to be drawn from this accident is that inexperienced men, such as the deceased, should not be employed around live wires, and that wherever possible the current should be cut off when men are employed in making repairs where they are liable to come in conta with the wires.

March 5—Carbon Hill Coal Company, Carbonado: Andrew Leiska Norwegian, age 39 years, married, occupation hoisting engineer, w fatally injured on March 5 at No. 6 mine of the Carbon Hill Co Company, at Carbonado.

No. 6 slope had been operated with a steam hoist until aboone week prior to this accident. At that time the change was ma from the steam hoist to an electric hoist. The hoist was equipp with two brakes, one on the drum, and one the shaft, and the braid power when tried out after it was installed was considered safe handle the work required on this slope. In addition to the two brakes the motors were so arranged that by throwing a switch they generate and would hold the trip without the brakes.

On the morning of the accident, a loaded trip was being holste and when near the top of the slope it stopped and started back, slow at first, when the engineer seemed to lose control, and the trip reback, gaining speed as it went. It gained such speed that the hear casting placed on the shaft, and on which the brake band worke flew into pieces, some of which were thrown through the roof of the building and 150 feet from the engine house. Some of the flying piece struck the engineer, injuring him fatally. He died the next day the Tacoma Hospital.

The cause for this accident cannot be given, as the deceased was unconscious from the time of the accident until he died. On my investigation of the accident, the master mechanic and electrician bottestified that every safeguard had been placed on the hoist to make it safe, and they could see no reason why the engineer lost control of the trip. The deceased leaves a widow.

March 31—Pacific Coast Coal Company, Burnett: Pete Smellsnic Austrian, age 27 years, single, occupation miner. Killed on March 3 1915, in North No. 3, gangway No. 20 chute, Burnett mine, operate by the Pacific Coast Coal Company, at Burnett.

Smellsnick was working as a miner, driving a chute to split pillar. The chute was driven about ten feet wide, and timbered wit stringers about five feet apart, which held about two feet of dirt that was between the coal and the main top. Three posts were set under the stringer, one at each end and one in the center. At the place where the accident occurred, the dirt between the coal and the main top had come down, leaving a space about two feet above the timber for three or four sets back from the face. The bucker in this place who was the only witness to the accident, testified that Smellsnick was nailing a brace near the last set when he heard a crash and the last four sets collapsed without warning, catching Smellsnick and killing him instantly. It is supposed that the dirt held by the last two sets gave way, discharging the last four sets without warning of before Smellsnick had time to escape.

The recommendation of the inspector after an investigation of this accident was that whenever in this work it was not possible to secure the timber by wedging it against the top, that it be secured by braces between the sets on both ends of the stringers, the braces to also catch the top of the legs. The space above the sets should also be secured by filling in with timber.

June 7—Carbon Coal and Clay Company, Bayne: Valmer Strelec, Austrian, age 38, married, occupation outside laborer, was killed by falling from a chute on the outside of the Carbon mine on June 7, 1915.

The coal from the first level of the Carbon mine is dumped into a chute about 400 feet long, which extends to the bunker level, where it is again loaded and taken to the washer. This chute was filled on the last day the mine worked, June 3, and on the morning of the accident Strelec, with three or four others, was working near the lower end of the chute starting the coal, so it could be loaded and taken to the washer.

The last seen of Strelec alive, he was sitting on the side of the chute, and it is supposed that he lost his balance and fell to the ground twenty feet below. He was missed shortly after, and found under the chute with his neck broken. He evidently struck the ground head first, and was killed instantly.

This fatality was purely accidental. The deceased leaves a wife and four children,

June 18—M. Fernandez, Spanish, age 33 years, single, occupation miner, was electrocuted by coming in contact with the trolley wire, while working on gangway stumps in No. 3 seam, second level, Ravensdale mine.

Fernandez and his partner were working on the gangway stumps in No. 3 seam. The end of the trolley wire came to within a few feet of the chute Fernandez was working in. He had a car under the chute, the outside end of which extended under the end of the wire. He had ignited a shot in his chute and was climbing over the end of the car on his way to the gangway, when in some way he came in contact with the wire. His partners secured assistance as soon as possible, the superintendent and mine foreman, with others, reaching the place about ten minutes after it happened. Every means was used to resuscitate him without the desired result, those present working on him for an hour or more, or until the doctor pronounced him dead.

At this mine, the voltage carried is 550 to 575 D. C. The inspector recommended that in all places in this mine where there is any danger of coming in contact with the wires that they be guarded by placing a 1x6 strip on each side of the wire, also a strip on top in front of the chutes. This recommendation was adopted by the officials at this mine, and the state inspection department will insist upon carrying this out throughout the state in mines where conditions will permit it, and where the voltage is over 250.

July 29—Northwestern Improvement, No. 3 mine, Roslyn: Andrew Majetich, Austrian, age 42 years, married, occupation miner; Mik Wichevich, Austrian, age 54 years, married, occupation miner; Josep Gavalo, Austrian, age 51 years, married, occupation miner, were kille about 7 a. m. July 29, in No. 49 pillar, third east entry, No. 3 mine

The deceased were working as miners in No. 49 pillar on the thir level east, and Majetich and Gavalo had drawn the pillar down about 500 feet from the top of the room. On the morning of the accident the fireboss noticed that the roof was working and a small cave has occurred. He called the miners' and foreman's attention to condition of pillar, and the deceased were informed that men would be sent it to give them assistance in timbering the place to make it safe to work in. The deceased started for their working place about 6:3 a.m. and had either started to timber or a bump came and loosene the rock, causing same to fall and catch the three men. They were dead when men went to their assistance. The company men who were to assist them followed the deceased about fifteen minutes after the started and had not reached the room before the accident occurred.

The only way such accidents can be avoided is for more cautio to be exercised on the part of the miners themselves, for in thi instance no one should, and it was thought could, be better qualifie to timber the place than the miners working in the place, who havin worked in the pillar so long were more familiar than anyone else a to the condition existing in their working place.

The deceased leave a widow and three orphans, a widow and fou orphans, and a widow, respectively.

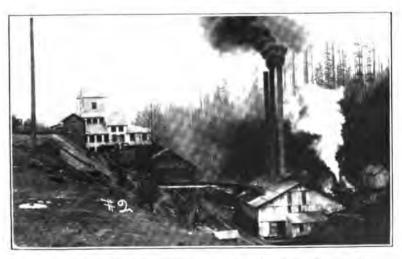
July 30—Wilkeson Coal & Coke Company, Wilkeson: Mike Radich Austrian, aged 27 years, single, occupation washerman, was killer about 10:30 a.m. July 30 at the washery of the Wilkeson Coal & Coke Company's mine.

The deceased had worked in the cleaning plant for the past si years, and on the morning of the accident had lengthened the driv chain to the shaft that drives the rock elevator, and spoke to the foreman of the shaft wobbling. The shaft is in two pieces and i fastened together near one end by means of a so-called coupling which consists of the hub of an old wheel with the remainder of the wheel broken off. There is a keyway in the hub for its entire length and two short keys were used to fasten the hub to the shaft and turn same, the hub also being fastened by means of four set screws which project out from the periphery of the hub. The shaft is about five feet from the ground.

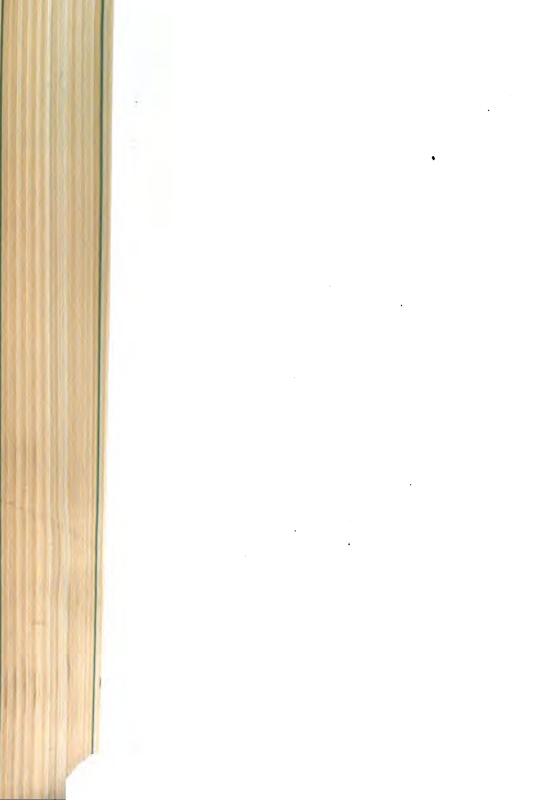
In order to stop some of the wobbling, the deceased was informed a few minutes before the accident that at noon when the machinery was stopped that he should put a solid key in place of the split one. He evidently went down immediately, for what reason no one knows but probably to look at the coupling, and in some manner his clothes



Entrance to Ford Mine, Pacific Coast Coal Co., Coal Creek, Wash



Cleaning Plant, Ford Mine, Pheline Point Cont Cont Corts, Wash



vere caught by the set screws and his body was carried about the haft. He was dead when picked up a few minutes later.

Accidents of this kind can be avoided by having all machinery quarded, especially projecting shafts, and using countersunk set screws or removing those not needed.

October 23—Carbon Hill Coal Company, Wingate mine, Carbonado: eon Bouffloux, Belgian, married, aged 50 years, occupation miner, vas killed on October 23, 1915, in No. 24 pillar, third level, Wingate nine.

The deceased and his partner were drawing No. 24 pillar. They were working on the last block above the counter and had started a kip from the breast. The breasts are cogged well as the face of he breast advances and at the time of the accident the deceased was working on the skip about ten feet from a cog. From an examination of the place and the evidence taken at the hearing held after the coident it was evident that the skip was well timbered, the accident reing caused by a bump which they frequently have in this mine. The bump discharged the timbers which had been placed along the kip, thereby allowing the top to cave and catch the deceased under he fall.

This accident was apparently unavoidable, as all precautions seem that been taken to insure the safety of the workmen.

He leaves a widow and five children.

#### THE RAVENSDALE EXPLOSION.

On November 16 at 1:25 p. m. an explosion in which thirty-one nen were killed occurred at the Ravensdale mine, operated by the forthwestern Improvement Company, at Ravensdale, Washington. I was notified of the accident at about 2:30 p. m. while at the Renton nine, and immediately proceeded by automobile to Ravensdale, arriving there at 4:15 p. m.

The Ravensdale mine was opened about twenty years ago, the resent company taking over the property some years later. The beds worked in this mine were the No. 3, No. 4, No. 5, and No. 9. The coal is sub-bituminous in character. The mine was opened on the No. 5 and by two slopes. The coal dips at an angle of from forty-seven egrees at the top of the main slope and flattens to thirty degrees at the bottom. The main slope was used as the holsting slope. The uxiliary slope, which is 100 feet west of the main slope, was used for aking supplies into the mine. The mine was ventilated by a ten-foot apell fan which was placed on the return airway on the west side of the auxiliary slope. Both slopes were used as intakes for the air.

At the time of the explosion thirty-four men were in the mine, wenty-eight of whom worked on the third level and six on the second evel. On account of a breakdown in the power plant most of the nen that worked on the second level were sent home at 11 a. m. on the day of the explosion, only six company men remaining to do repair

work. When the explosion occurred, smoke poured from the entrance of both slopes. The fan was not damaged by the explosion and we speeded up to capacity. Superintendent Scott organized a rescue part which entered the mine as soon as possible after the explosion, got down the auxiliary slope. After clearing some obstructions at a first level, the rescue party reached the second level, where four me Martin Metzner, John Errington, Mike Demoshak and Mike Ferlix were found in the rock tunnel to No. 9 seam on west side of a slope. All but Ferlich were overcome by the afterdamp. Demoshand Metzner were revived when they reached the outside, but Erritton died on the way out. The other men on this level were found the entrance to the rock tunnel to No. 4 seam on the east side of a slope, where they had been killed instantly by the force of the explosion.

On my arrival at the mine I joined the rescue party which was th The main slope was badly wrecked by the explosic which made it impassable. The auxiliary slope was badly caved at t second level. A hole was made through this cave and at 5:00 p. a party of miners in charge of Superintendent Scott and State Mi Inspector Bagley reached the third level. This party found the body of C. B. Davis, pumpman, and L. DesMartino, cager, about thirty fe east of the main slope. Mine Foreman Kane was next found in t foreman's office about 200 feet farther in on the east side. This par continued to advance on this side until the overcast which conduct the return air across the gangway was reached, or about 400 fe from the main slope. This overcast was found to have been destroy and gas was encountered a few feet inside of this point. Super tendent Scott returned to the second level to take charge of the wo of clearing the slope so that cars could be taken down to remove t bodies that had been found. The others in the party then explor the west side as far as No. 3 chute. The gangway on this side show much evidence of the violence of the explosion. Gangway sets we blown out and many falls encountered.

After being satisfied that no one on the third leved had survive the explosion, the party returned to the second level, where all efformers concentrated in clearing the cave on the slope, as it was exidered unsafe to allow any work beyond this point until this dangehad been removed. This work was temporarily completed by 9 a. on the morning of the 17th, and the work of removing the bodies from the third level was started.

On that date a rescue party explored the west side and recover the bodies of three men who were on this side of the mine. The we side was then sealed off temporarily and all efforts were directed recovering the bodies on the east side. Overcasts and stoppings we found to have been either blown out or damaged, and temporarepairs were made and ventilation established as the work advance The rescue men equipped with rescue apparatus investigated conditions ahead of the brattice crews.

On the 18th at 11:00 a. m. ventilation was established as far as chute No. 37, and on that date the bodies of six men were found on the gangway between No. 37 and No. 43 chutes. The work of clearing the chutes No. 37 to No. 43 was then started, the sixteen bodies remaining in the mine being in this section. This proved to be the most difficult part of the recovery work. The air was carried up No. 37 chute, where two bodies were found on the morning of the 19th. The ventilation was established and the chutes cleared in order, from No. 37 to the inside. On the night of the 19th and the morning of the 20th twelve bodies were recovered. The task of clearing the last two chutes was a difficult one. The last two bodies were recovered late on the evening of Sunday, November 21.

In the rescue and recovery work the mine officials and other employes of the Ravensdale mine, who were not in the mine at the time of the explosion, did all in their power in the work of rescue. When notified of the explosion, the state mine inspector made a request for the assistance of the trained men of the Pacific Coast Coal Company. A team of trained men from Black Diamond reached Ravensdale shortly after the explosion, followed later by teams from the Coal Creek and Burnett mines of that company, each in charge of a mine foreman. Additional help also responded from the Roslyn and Cle Elum, mines. Offers of assistance were received from all sides, and nothing was spared to expedite the recovery work. Officials from other coal companies in the state came to Ravensdale and gave every assistance possible. It was conclusively shown that the work of organizing and maintaining trained rescue teams at the different mines in the state helped materially in the recovery work.

#### Conditions on Third Level Where Explosion Originated.

It was agreed by everyone who made an investigation that the explosion originated somewhere in the battery from No. 37 to No. 43 chute on the east side of the third level, No. 5 seam. No. 5 seam ranges from twenty to twenty-five feet in thickness and was the only seam worked on the third level. No mining was being done on the west side on this level at the time of the explosion. Three company men doing repair work were the only ones on that side.

No. 5 seam on the east side was worked on the double entry system, the upper gangway used as the main haulage and intake airway, the lower gangway as the return. The air was conducted to No. 43 chute, up No. 43 chute and across the top crosscuts to No. 37 chute, down No. 37 chute to first crosscut, where it was carried over the gangway through an overcast driven on the top coal to the lower gangway, or return airway.

No. 5 seam was worked on the chute and pillar system, chutes six feet wide being driven on the bottom coal to the required distance.

The coal was shot from the solid, and Monobel No. 2 powder was used for blasting. When the chute was up the required distance the pillar was cut through to the inside or outside, as the case might be, and the pillar drawn back by working out the bottom coal first, then caving the top coal and loading it out.

Owing to the trouble from spontaneous combustion when the obworkings were not sealed off, a battery of from eight to twelve chute were worked together. A solid pillar of from eighty to one hundrefeet was left in between batteries and the battery sealed off whe finished.

Motor haulage was used on the gangway. Those on the gangwa used open lights. All on the pitch used Wolf safety lamps or electric lamps. Twelve miners, three timber packers and one chute starte were working in the chutes on the pitch at the time of the explosion Each shift was in charge of a fireboss whose duty was to have general charge of the work and fire all shots. The shots were fired three times each shift. The day shift shooting time was 9 a. m., 12 m and 3 p. m.

A careful examination was made of all working places from No. 3 to No. 43 chute by the State Mine Inspector, accompanied by a con mittee appointed by him to determine, if possible, the cause and original of the explosion. The committee appointed for this purpose was con posed of J. F. Menzies, manager, Carbon Hill Coal Company, Ca bonado; E. S. Brooks, general superintendent, Washington Union Co Company, Tono; Martin J. Flyzik, president, and Ernest Newshun vice president, District No. 10, United Mine Workers of America After a careful examination of the mine and hearing the testimon of twenty-six witnesses, who worked in the mine, Mr. Menzies, M Flyzik and Inspector Bagley, of the committee, were called as wi nesses by the coroner. It was impossible to definitely give the caus of the explosion. It seemed to be the conclusion of the investigation committee that it originated at the face of the chutes from No. 41 to No. 43, possibly in No. 41 chute. The evidence pointed to No. 4 chute for the following reasons: No work had been done at the fac of No. 41 chute since the regular shooting time, which was one an one-half hours before the explosion; one man was working in No. 4 on this day, and it was thought that he was probably moving som gas out of his place, which they sometimes had after shots were fire This would account for no work being done at the face. In some wa this gas was ignited, causing a gas explosion which in turn ignited th dust and carried the explosion throughout the mine. The men No. 41, No. 42, and No. 43 chutes were badly burned, showing the there was more flame at the face of the above chutes than in the others. All on the pitch outside of No. 41 were not burned except the three timber packers in No. 40, who were found in front of the to crosscut from No. 41.

The testimony also showed that the dusty condition of the battery where the explosion was thought to have originated was a recent condition and that the operating company had installed the water system a short time before the accident. They had sprinkled the chutes where the accident occurred on Sunday, two days before the accident occurred, and were taking other precautions to take care of the dust. The fact that most of the chutes were working three shifts accounts to some extent for the amount of dust made.

After thirty-three witnesses had been examined the coroner's jury returned the following verdict:

L. Thibaut came to his death by reason of an explosion of firedamp and coal dust which occurred somewhere between chutes No. 37 and No. 43, on the east side of the main slope to No. 3 level. Thirty other miners also lost their lives.

After a thorough investigation of the Ravensdale mine by a tedious and careful examination, we have been unable to determine definitely the original cause or the exact location of the recent disaster. From the condition of the mine as observed by us and the testimony of the surviving miners who were affected by the concussion, the explosion must have been very violent. The regular current of fresh air supplied to those working in the mine was suddenly stopped by the falling of rock and coal and timbers in the passages through which the bodies of the entombed miners could be reached by immediate relief.

From the best information obtainable, a sufficiency of fresh air was circulated throughout the sections of the mine where the men were at work at the time immediately preceding the explosion, and no laxity on the part of those conducting the operation was shown by the testimony given before us, but aside from diligent inspection and capable management a rigid enforcement of safer and more skillful methods should be exacted of every person employed in this mine.

In a gaseous mine where the dust is dry and "blasting from the solid" is permitted a chamber six feet in width is entirely too narrow. It is hardly possible to drill a hole at the correct angle to assist a charge of powder in making an effective break in the solid body of coal. Extreme caution should be exercised by the "starters" who are obliged to use safety lamps when working near the bottom of the chutes, and we deem it unsafe for an open light to be used on the level by the men who lead and move the cars to and from these chutes.

In the pockets of some of the dead miners, who worked at the faces of the chutes where "safety lamps" were used, were found matches and match boxes and a smoking pipe, in direct violation of offenses defined in our state mining laws.

In conclusion, we do recommend that legislation to further safeguard the lives of men working in the coal mines of the State of Washington be enacted, to the end that the recurrence of a similar disaster may be minimized, and thus a more hopeful feeling of security against such deplorable accidents find lodgment among all of our people.

Dr. J. Tate Mason, Coroner.

John Sullivan, foreman. John Marlow Thomas Dobson James Carson, Jr. E. F. Lawson Dennis Driscoll The conclusion to be derived from this explosion is that morprecautions must be taken in dusty mines, especially those the generate explosive gas. Where sprinkling is used to keep down it dust no half-way measures will do, but all parts of the mine must be thoroughly wet down, especially near the working faces where sho are fired. No mixed lights should be used in any gaseous mine, for where safety lamps and open lights are used in the same mine breeds carelessness among both miners and mine officials. In a mines on safety lamps mine officials are not doing their full duty when inspection for matches is not made. The safety of the mine dependent only on the mine officials for the rigid enforcement of all rule and regulations for safety, but on the miners themselves to obsert and demand that all rules and regulations for their safety are couplied with.

November 22—Issaquah & Superior Coal Company, Issaqua Lance Davis, American, single, aged 19 years, occupation switch was killed about 12:20 p. m. on November 22, in main tunnel not mouth of Alvo mine, Issaquah, operated under lease to Andre Kennedy.

There were no eyewitnesses to the accident, and it is thoughthat the deceased fell in front of the trip when he went to get the top of the front car, on which he was riding. The trip on which he was riding was a thirty-car, loaded trip, coming from the inside the tipple. It was customary for the switcher to get off the trun ahead and throw the switch near the mouth of the mine, motor running slowly, as there is a steep grade. The evidence show that the deceased fell under the trip about 236 feet inside of switch, and was dragged about 200 feet. His body was discover later by the motorman, who noticed a car off the track and we inside to tell the switcher. On learning the deceased was not outside went back and found the body under the third car.

Accidents of this kind can be avoided, as in this instance it was not necessary for the switcher to be on the cars, but he was rid there to save the walk past the trip for the purpose of throwing switch. The deceased had been instructed not to ride the cars, to ride the motor.

The inspector recommended that in the future no one be mitted to ride on the cars of the trip, but to ride on the motor, a that the platform alongside of the track be extended to a point enough from the switch, in order that the switcher on getting off motor could walk to the switch in safety.

December 8—Washington Union Coal Company, Tono: Joe I polsky, Polish, age 32, married, occupation miner, was instantly kill on the morning of December 8, while working in No. 13 pillar, the south gangway, Tono mine. The deceased miner and his part were working on No. 13 pillar, which had been drawn back ab eighty feet from the face of the room.

A shot had been fired near the upper end of the pillar on the last working day previous to the accident. The mine foreman had passed through the place about five minutes before the accident occurred, at which time the deceased miner was pulling down the coal loosened by the shot. Before he pulled down all the coal he started to load a car, standing under the loose coal to do so.

A slab of top coal weighing about 300 pounds fell from the rlb and caught him against a prop, killing him instantly. If the miner had taken down the loose coal before loading the car as he started to do, this accident would not have happened.

The deceased leaves a widow and four children.

December 10—Carbon Hill Coal Company, Wingate mine, Carbonado: Atilas Guccolo, Italian, single, aged 35 years, occupation miner; Vlahnovich Kasmir, Austrian, married, aged 35 years, occupation miner. The deceased miners were working on third level, No. 30 breast, about forty-five feet above the eleventh crosscut, when a bump occurred which shook or jarred that part of the mine and nearly filled the breast or chute full of coal where the two men were working, killing both.

The so-called "bumps" occur very frequently at this mine, but are very slight when compared to this one. These bumps are caused by insufficient pillars being left in to carry the overlying strata, the cover over the area affected being about 1,600 feet. Breasts had been driven on both sides of No. 30 to the gangway above, leaving a block of coal about 60x80 between No. 29 and No. 31.

This had been standing for some time and the two miners were driving a chute about twelve feet wide to split this block. This block of coal being larger than the others in this section, was supporting a great amount of the pressure from the overlying measures, and as the chute advanced it released this pressure, causing the bump. The bump closed the crosscuts for four or five blocks below where the two miners were working and nearly filled the chute with coal for the same distance. This coal had to be loaded out and the recovered, which was several hours later. Kasmir leaves a widow and two children.

After this accident a conference was held with a committee representing the miners and the mine management to see if some means to eliminate the danger from the bumps could be found. After an examination of the mine and a full discussion by all concerned several recommendations were made and a plan of operation approved which is hoped will minimize the danger in the future.

### FATAL CASUALTIES, 1916.

CAUSE OF DEATH	Electrocuted, feed line. Struck by plees of hoist.† Falling coal and rock. Fall from coal chuts.† Fall from coal chuts.† Fall of rock. Fall of rock. Fall of rock. Fall of rock. Fall of rock. Fall of rock. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion.
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Fatal Casualties, 1915.—Concluded.

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Date	NAME	A go	Occupation	Residence	Mar- ried		Single Widow	Ohii- dren	Pend.	CAUSE OF DEATH
NOV. 16 NOV. 16 NOV. 16 NOV. 16 NOV. 16 Dec. 10 Dec. 10	Leander Thibaut 56 John Arko 48 Frank Wegher 55 John Miller 29 Joe Zgone 26 Joe Glaub 44 L. DesMartino 27 Lance Davis 28 A. Guccolo 85 V. Kasmir 85	<b>おおおいの名 # 7 2 2 8 8 8 8</b>	Miner Miner Miner Miner Miner Miner Miner Chager Switcher Miner Miner	Ravendale 1 Ravendale 1 Ravendale 1 Ravendale 1 Ravendale 1 Ravendale 1 Ravendale 1 Ravendale 1 Ravendale 1 Ravendale 1 Carbonado 1 Carbonado 1				4 00 4 00 00 00 00 00 00 00 00 00 00 00	~ m m m m m	Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Dust explosion. Aust explosion. Rail of coal. Fall of coal. Flying coal, bump.
	Totals	<u> </u>	Fotals		<b>88</b>	<b>2</b> 14	88	28	 ₹	

Two killed outside of mine and 26 underground. § One killed outside of mine and 16 underground.

RECAPITULATION OF FATAL CASUALTIES, 1915.

Residence	No.	Oecupation	No.	Nationality	No.	Cause of Death	No.	Name of Mine	₩.
Bayne		Chute starter		American	9	Caught in washery ma-	,	Carbon Oosl & Clay Co., Old Carbon	
Carbonado		Engineer Laborer, outside		English	22.	Electrocuted, feed line		Outside Carbon Hill Coal Co., Wingate Carbon Hill Coal Co., No. 6.	
Ravensdale Renton	8 - ×	Loader Mine foreman Miner	8	Italian Montenegrin	1 1 12	Wire Explosion of dust.	_ ¤ _	Northwestern Improvement Co., No. 3. Northwestern Improvement Co., Paronadala	က စွ
Tono. Wilkeson.		Motorman Pumpman		Pole. Negro	000	Fall of rock.		Issaquah Pacific Coast Coal Co., Burnett	
	<u>:                                    </u>	Switcher		Beigian Spanish	,	Fell from chute, outside	- 01	Puget Sound Traction, Light & Power Oo, Renton	-
		Timberman Timberman helper Timber nacker	rs 61 <del>-4</del>	weisn	- : :	Mine cars, run over by Struck by piece of hoist.		washington Union Coal Co., Tono mine Wilkeson Coal Co., washerv	
	::	Track cleaner	61		::				::
<u>:  </u>	$\overline{\cdot}$	Washerman	-		:1		:1		:
Totals*	\$		<b>.</b>		4		45	Totals* 45	<b>\$</b>
* Three were l	filled	* Three were killed on surface and 42 underground.	TETO	md.	:				ļ

Returned to Work, and Number of Injured Returned to Work, at Each Mine, 1915. Table drowing Days Operated, Tonnage minds,

NAME OF MINE	Aver- age Dava	Short Tons Per	2	Number of Employes		Nur	Number of Men Injured	Hen Hen	Time I Men Re	Time Lost (Days) of Men Returned to Wor	Time Lost (Days) of Men Returned to Work	Numb Retu	Number of Injured Returned to Work	ured
	Oper	Mine Per Year	Inside	nside Outside	Total	Inside	Inside Outside Total	Total	Inside	Inside Outside	Total	Inside	Outside	Total
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ale	8	124,347	<b>88</b> <u>2</u>	:8 s	153	71	<b>~</b> 0	ត	66.	<b>‡</b> 8	SS 8	3:1	₩.	22.8
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Taylor	8	21,380	æ	9	<b>\$</b> \$	63	:	69	2		20	61	:	61
The County	+ 156	811,966	1,295	35	1,850	212	83	240	6,0804	5013	6,582	211	22	883
KITTITAS COUNTY— Northwestern Imp. Co No. 6						æ		8	1.196		1.196	123		25
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	٠.	210,66		2	S4 .	77	2	2 .	3	249	2 23	7	10	7 2
Cascade Co						*	:	4	8		8	*		-
Roslyn Cascade Coal Co., No. 2	-	71 688	ð	_ =	ž	w r-	<del>-</del>	99 L	811		25	9 6	:	m t-
	; ; ;		5		3			1				.   6	1	1

*Includes all non-fatal accidents for which compensation for time lost has been paid by the Industrial Insurance Commission. Does not include asceleding to office workers. + Found by dividing the sum of the products of the total number of men employed and days worked at each mine by the total number of men employed. (a) Under development. (b) Operated 2 months. (c) Not assignable to any one mine. (d) Driving rock tunned.

Table Showing Days Operated; Tonnage Mined; Number of Employes; Number of Men Injured;* Time Lost by Men

Returned to Work, and Numb	ber o	Number of Injured Returned to Work, at Each	Retu	rned to	Wor	k, at E	Each M	Mine, 18	915.—C	1915.—Continued.	ed.			ľ
TANK OF TANK	Aver- age	Short		Number of Employes	# # # # # # # # # # # # # # # # # # #	Nai	Number of Men Injured	Men	Tyme 1 Men Rei	Time Lost (Days) of Men Returned to Work	ys) of o Work	Numb Retur	Number of Injured Returned to Work	ured
NAME OF MINE	Oper- ated		Inside	Inside Outside Total	Total	Inside	Inside Outside	Total	Inside	Inside Outside	Total	Inside	Inside Outside	Total
KITTITAS COUNTY (Continued)— Rosiyn Cosi & Coke Co., Plant. Rosiyn Fuel Co., No. 1. Rosiyn Fuel Co., No. 2. Rosiyn Fuel Co., No. 8 (a) Rosiyn Fuel Co., Summit. T. B. Wright & Sons.	81 25 E 25 E 25 E 25 E 25 E 25 E 25 E 25	7,328 136,387 61,515 15,041	136 136 44	8 8 8 8 8 8 9 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	156 156 85 85 85	110 82 7	81 11	2 12 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	952 2889 278 872 872	888 88	965 7129 806 78 872	66 99 98 77	1 1 2	≈ ජී ට ∞ ∞
The County	+ 127	879,062	1,382	158	1,584	222	12	787	5,858	88	8,136	217	12	Si
LEWIS COUNTY— Chehalis Coal Company Divide Empress Ford's Fraire Ladd Mendota Monarch Superior Superior	30 30 30 30 30 30 30 30 30 30 30 30 30 3	2,000 1,308 5,144 5,114 4,677 8,774 8,774 9,417 8,518	88888	≈ 401 ± 5 ≈ 01 €		H 20 H 20 H 20 H 20 H 20 H 20 H 20 H 20	-	H 60 H 60 H 60 H 60 H 60 H 60 H 60 H 60	85 87 722 16 88	Ħ	88 82 11 <b>25</b>	H 64 69 H 69	1	m00 m00
e County	1+	78,260	105	88	133	13	-	17	7584	Ħ	70.	18	-	=
PIERCE COUNTY—  Burnett  Garbonado outside (e) Carbonado, Douty (2 and 3) Carbonado, Douty (2 and 3) Carbonado, No. 6 Carbonado, No. 6 Carbonado, No. 6 Carbonado, All mines Carbonado, Miller Carbonado, Miller	197	84,461	199	57 126	256	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	80 E E	25 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1,137 1,24 106 108 108 108 108 108 108 108 108 108 108	88 FF 6 988	1,170 241 288 198 198 198 198 198 198 198	42 11 6 9 119 6	စာထူမ စ္က	45 118 118 119 44 45 119 119 119 119

Men Injured; Time Lost by Men

Number of

Number of Employes;

Table Showing Days Operated; Tonnage Mined;

Returned to Work, and Number of Injured Returned to Work, at	0	l Injured	Retur	ned to	Returned to Work at Each Mine, 1915.—Concluded	- H	Each Mine, 1915.—Concluded.	line, 1	915.—(	Conclu		Ě		Men
	Aver	Short	<b>Z</b> -	Number of Employee	<b>1</b> 8	Na	Number of Men Injured	Men	Time	Time Lost (Days) of Men Returned to Work	ys) of o Work	Numb	Number of Injured Returned to Work	ured
NAME OF MINE	a ted	Mine Per Year	Inside	Inside Outside	Total	Inside	Inside Outside	Total	Inside	Outside	Total	Inside	Inside Outside	Total
PIERCE COUNTY (Continued) -		789 06	9	¥	72		-	œ	190		191		-	α
Gale Creek Melmont	38	19,585 18,46	344	228	88	. 0 -	- 64	28	ន្ត្រីន	83	8 %	-0-1	- 61	28
Montecuma		16,745	<b>\$</b> 7	% ≪	۶ ۱۰	6	:	6	110	:	110	<b>&amp;</b>		<b>O</b>
(a) objection		17,748	· =	22,	. 원	9	- 7	- 1	108	= 6	119	•	- 3	- 1
Wilkeson, East 3.						63	\$ :	<u>*</u> 63	287	:	5 kg	61	\$	<u>*</u> 62
South 1						о «		<b>a</b> •	2123		212	- 6- ::	:	<b>a</b> <
			<u>: :</u>	<u>: :</u>	ΞΞ.	-10		-	161		161	: 1~		) t~
Wilkeron, all mines	286	110,426	118	£	186	24	7	88	920	188 H	888	2	±	<b>8</b> 8
The County	285	188,668	813	998	1,179	166	#	202	8,0293	7663	4,396	165	F	206
THURSTON COUNTY— Rucoda Coal Company	! -	-			•	-		-	ı.c		100	-		-
Hanniford, Tono	- 37	112,006	22	83	10	4		*	8		8	4		( <b>*4</b>
The County						20		<b>10</b>	to		₽.	20	***************************************	10
WHATCOM COUNTY - Blue Oanyon	<b>8</b> 1	6,255	16	•	19	-		-	17	!	14	-		-
Washington Anthracite Coal Co. (a)						מו		22	202		202	9		20
The County	+ 222	6,256				•		•	<b>\$24</b>		<b>1</b>	9		9
The State + 165 2,409,331	+ 165	2,400,331	8,068	1,145	4,888	25	88	208	706 16,5689 1,616	1,616	18,184	617	86	908

• Includes all non-fatal accidents for which compensation for time lost has been paid by the Industrial Insurance Commission. Does not include accidents happening to office workers. Found by dividing the sum of the products of the total number of men employed and days worked at each number of men employed and days worked at each number of men employed. None given, mine has less than 10 men employed at one time in and about mines. (a) Under development. (c) Not assignable to any one mines.

Table Showing Number of Injured Not Returned to Work: Number of Tons Mined Per Man Injured; Average Time Lost

Inside Outside Total Inside 5,099.7 1,732.0 9,822.0 9,827.0 9,827.0 9,827.0 9,827.0 9,827.0 9,826.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,366.9 8,	<u> </u>	Trotal 3,300.8 1,200.0 4,911.0 4,713.5 2,287.2	27.20 27.20 12.67 48.00 25.50 26.12	27.20 12.25 12.67 12.00 18.00 9.00	Inside and Outside (Coutside 22.92 12.50 28.50 28.50 28.50	6.6 8.7 118.0	Inside Outside 6.6 4.8 82.7 46.0 13.6 9.0	Inside and Outside 6.1 85.7 7.0 10.8
<del></del>	<u> </u>	8,599.8 1,599.0 4,911.0 4,713.5 2,287.2	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	12.25	23 23 25 25 25 25 25 25 25	6.6 38.7 18.0 12.5	8. 4.8 0.0 0.0 0.0	6.1 7.0 7.0 10.8
<del></del>	<u>:                                    </u>	1,299.0 4,911.0 4,713.5 2,287.2	21.85.83 86.93 8.33 8.31	12.00	33 3 3 3 5	7.00 12.00 7.00 7.00	20.10 0.00	25.7 7.0 10.8
<del> </del>	∷	2,287.2	88.88	08.30		:	:	2 6
N 64			8.67	15.08	81.18 81.18	11.8	7.5	16.8
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- 10 6-	81,086.7 40,816.0	5,981.3 1,880.8	188 188	388 388	38.5 38.5	и ю оч о оч во	16.8	* c- ss
10,686.2		0,000,0	85.88 86.80	8.98	23. 3.8 3.8	16.0	8	8.8 19.0
3,985.6	80,177.8	3,520.6	88.58	18.57	27.22	6.1	1.08	7.7
	<u>                                      </u>	8,266.4	89.50 84.96	8.00 00.00	25.00 26.00 26.31	70.4 60.00	0.78	60 FG 60 GG
		5,108.7 8,276.8 4,238.6	22.18 19.11	o 9	338 8138	8.44	7.0	00 00 10 00 01
			16.75		5.58			
	2, 985.6 2, 777.4 2, 778.4 2, 278.6 2, 278.6 3, 278.4 4, 258.6 6, 88.8 6, 88.8 6, 88.8 6, 88.8 6, 88.8 7, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8 8, 88.8	8,985.6 30,177.8 8,844.2 140,457.0 8,773. 8,776.8 48,881.5 4,228.6	8,986.6 30,177.3 8,844.2 140,477.0 8,774.2 48,981.5 1,288.6 12,288.6	8,985.6 30,177.8 3,380.6 8,844.2 140,457.0 3,286.4 8,778.0 2,778.0 6,784.2 48,381.5 5,108.7 4,238.6 4,238.6	8,985.6 30,177.3 8,580.6 29.58 1 8,844.2 140,457.0 8,2864 84,96 8,778.0 2,778.0 8,296 6,784.2 48,381.5 5,108.7 21.18 8,278.6 19.11 4,288.6 4,289.8 19.11 15,75 10,234.0 10,234.0 25,58	8,965.6 30,177.8 3,660.6 29.69 18.67 8,844.2 140,457.0 3,260.4 84.66 8.00 8,778.0 2,778.0 25.30 8,778.2 45.881.5 5,106.7 21.18 9.50 4,238.6 8,238.1 8,238.6 19.11 10,238.0 10,238.0 20,38	8,965.6         30,177.3         3,580.6         29.58         18.57         27.44           8,844.2         140,457.0         8,2864.8         84.56         8.00         35.00           8,774.2         2,778.0         25,778.0         25,708.0         35.50           4,228.6         4,228.6         19.11         19.11         19.71           10,234.0         16,78         22.04         40.80         16.78           10,234.0         16,78         80.38         380.38           10,234.0         22.40         32.64         36.38	8,985.6         30,177.8         3,280.6         29.58         18.57         27.44         6.1         20.1           8,844.2         140,457.0         3,280.6         80.50         8.00         85.00         6.5         87.0           8,784.2         140,457.0         3,280.4         84.5         8.00         85.00         6.5         87.0           8,784.2         140,457.0         3,280.4         8.00         85.00         4.8         87.0           8,776.3         4,288.6         5,106.7         21.18         9.50         19.76         9.8         7.0           4,288.6         8,278.6         19.01         8.04         9.50         8.4         7.0           4,288.6         8,278.6         19.01         10.78         9.8         8.4         7.0           10,284.0         10,284.0         20,486         13.4         88.38         13.4         88.38

Table Showing Number of Injured Not Returned to Work; Number of Tons Mined Per Man Injured; Average Time Lost Per Man Returned to Work, and Number of Employes to Each Man Injured, at Each Mine, 1916.—Continued.

	Not Re	Number of Injured Not Returned to Work	Work	Ā	Number of Tons Mined Per Man Injured	Milled	Average Mad Re	Average Time Lost Fer Man Returned to Work	ogt Per o Work	Number to Eac	Number of Employes to Each Man Injured	ployes njured
NAME OF MINE	Inside	Inside Outside Total	Total	Inside	Outside	Total	Inside	Inside Outside	Inside and Outside	Inside	Inside Outside and Outside	Inside and Outside
KITTITAS COUNTY (Continued)— Roslyn Coal & Coke Co., Plant Roslyn Fuel Co., No. 1. Roslyn Fuel Co., No. 2. Roslyn Fuel Co., No. 3.	- 8		- 63	1,220.5 7,178.2 5,592.2	68,198.5 61,515.0	1,220.5 6,494.6 5,126.2	15.91 87.91 80.89	15.00 28.00	25888 28888	01 F. €. 01 01 4	10.0 8.0	8.0 4.7 5.3
Fuel Co., Vright & S				2,148.7	15,041.0	1,880.1	80.28	3.00	22.	8.	0.11	6.9
The County	70		20	8,960.7	73,256.1	3,756.6	26.99	28.08	27.06	6.2	12.7	6.6
LEWIS COUNTY— Chehalis Yoal Company Divide Empress				2,000.0		2,000.0	36.00			8.0		<b>4</b>
				6,462.3	88,774.0	5,589.1	88	11.00	8	8.		8.6
Moltanti Sulperior				9,417.0 2,839.3		9,417 0 2,889.8	15.00		15.8 26.41	3.7		9.0
The County				6,019.9	78,259.0	6,689.9	08.79	11.00	24.00	8.1	28.0	9.6
PIERCE COUNTY Burnett Carbonado outside (c)				2,010.9	28,158.7	1,876.9	27.07	11.00	8.8	4.7	19.0	5.7
Wingate Douty (2 a)			-				15.00	8.0	2.88 8.87 8.87 8.87			
No. 6							18.8					
Carbonado, all mines	-		-	2,988.8	10,498.8	2,292.7	38.8	18.42	183	1,4	6.5	<b>6.</b>

	Not Re	Number of Injured Not Returned to Work	ured Work	Num. P.	Number of Tons Mined Per Man Injured	Mined	Average Man Re	Average Time Lost Per Man Returned to Work	ost Per	Numb to Eac	Number of Employes to Each Man Injured	ployes
	Inside	Inskie Outskie Total	Fotal	Insfde	Outside	Total	Inside	Inside Outside	Inside and Outside	Inside	Inside Outside	Inside and Outside
PIERCE COUNTY (Continued)—								! 				
Fairiax Gale Creek				2,947.7	20,684.0 19,585.0	2,579.2	55 88 52 88	8 8 8 8	25.88 26.88	86.83	8 0 0 0	Q 10
Helmont Montezuma Scouth		: :		1,860.5	9,223.0	6.148.6	20.02 12.22	27.30	25.21 12.83	#1.0 4.5	7.5	18.7 8.4
3				2,957.2	17,748.0	2,584.7	18.00	11.00	17.00	6.5	21.0	8
Wilkeson, East 3.							118.50	15.61	15.61 118.50			
Wilkeson, Scuth 2							23 co 25 83		23 co.			
				4,601.0	7,887.5	2,906.9	83.72 92.92	15.60	2 2 2 3 3 3 3 3	4.7	5.2	6.4
The County	-		-	2,943.9	11,919.3	2,800.8	8.00	18.69	ਲ ਬ	6.7	8.9	5.7
THURSTON COUNTY Bucoda Coal Company Hanniford, Tono				28,024.0		28.024.0	5.00		17.88	18.0		0.88
The County	:		:						<u> </u>			
WHATCOM COUNTY— Blue Canyon Washington Anthracite Coal Co. (a)				6,255.0		6,255.0			8:4	16.0		19.0
The County			:::	1,042.5		1,042.5	82.38		37.38			
The State	2-	1	80	8.861.1	20.887.1	× 419.0	8	1 8	3		3	

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LOST,	
TIME	-
AND	
INJURY,	11
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CAPITULATION OF NON-FATAL ACCIDENT8;* CAUSE OF INJURY; NATURE OF INJURY, AND TIME LOST, 1915	
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CAUSE OF INJURY	17466	- 65	1000	to Work	7ork	of In-	NATURE OF INJURY	Inelide	Ontatole	1010	to Work		ė.
				Total	Average					i	Total A	Average	
	, 51	-	ន	474	21.57	8.12	Ankles bruised	œ	01	92	188	18.50	1.42
fterdamp	<u>-</u>	-	-	83	28.00	0.14	Ankles dislocated	_		_		8.8	o. 14
	-	**	-	28	9.75	0.57	Ankles sprained	25	20	92	<b>1</b> 000	8.8	6. 2.
	+		*	29	15.50	0.57	Arm broken	90		9		33.55	9. 83.
ave in	61		01	\$	8.73	83.0	Arm bruised	0.	61	=		14.18	 25
the enough	64		64	145	2.50	0.28	Arm burned	-	-:	_	-	8.8	0.14
dere	-	-	-	8	8,8	0.14	Arm Injured	-		-		17.00	0.14
+ 1	1-	. 61	0	146	18.25	1.28		88	*	8		19.68	<b>4</b> .3
oal coming down chute	0	-	9	277	27.70	1.42	Back injured	*		4	-	179.00	0.57
	-	21	61	17	8.50	88.0	Back strained	ਲ	?1	88		25.53	4.67
Coor fell		' '	-	*	3.00	0.14	Body bruised	18	61	8		88.88	88 88
92		61	91	133	6.73	83.0	Body injured	22		99		18.00	0.48
variotion of gas	8		8	1996	88.38	<b>4</b> .11	Cheek cut		-	-		12.00	0.14
of clay clod	-`		-	116	80.68	0.57	Chest bruised	89	-	*		14.12	0.07
	g.		80	1.529	19.60	11.05	Collar bone broken	-		-		8.8	0.14
	2	-	18	8,5854	28.01	18.56	Elbow bruised	<b>-</b>	_	•		17.00	0.67
down chitte	•		00	٤	8 73	0.48	_		-	-		82.88	0.14
- TOWN	•	ıc	=	63	29.70	1.56	Filbow cut	*1	-	*		12.88	0.45
\$ [ece acr	8	,	8	1.018	17.86	8.50	Elbow dislocated	81		61		16.50	0.28
Plating obliget	}	-	-	9	8.9	0.14	Eye bruised	88		83		16.10	3.97
		_	_	6	93.00	0.14	Eye destroyed §	+		7		8.8	0.57
emmer		_	-	5	104.00	0.14	Eye injured	88	-	34		14.20	2.2
mand of cert	۰	. :	64	ŝ	8.8	0.28	Face bruised	6	7	18		14.19	<u></u>
The car	· 5	٥	8	86	80.00	4.67	Face burned	<del>-</del>		*		9.19	0.57
Competing of some	;	. –	-	15	12.00	0.14	Face cut	φ.		10		10.80	6.7
Ocomotive, steam	-	• 00	۰	1881	15.39	1.28	Foot bruised +	88	89	8		20.03	5.58
chillery	• -	,-	6	17	8.50	0.28		-				8.8	0.14
Mine cause	- 57	9	16	1.678	28.32	8.07	Foot cut	61	61	*		27.80	0.97
the case and loose clothing	:-	:	-	71	14.00	0.14	Poot cut off	-		-		156.00	0.14
Cal all a	•	-	_	ន	22.00	0.14	Foot infected		-	-		8.11	0.14
	٠,		. 03	112	87.88	0.43	Foot injured	-	<b>∞</b>	2		<b>8</b> .4	1.48
ne cer and timber	12		19	256	88.88	2.12	Foot punctured	e1	-	<b>6</b> 1		8.9	83
	-		-	ž	87.00	0.14	Foot sprained	-	-	-		8.8	0.14
tor and car	81	-	90	147	8.09	0.43	Foot mashed	7		<b>+</b> ;		8 8	0.57
	•		•	701	8	8	Panara National	3	•	6		)	×

Includes all non-fatal accidents for which compensation for time lost has been paid by the Industrial Insurance Commission.
 accidents happening to office workers. † One not returned to work. † Three not returned to work.
 † Three not returned to work.

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	Nun	Number Injured	red	Time Lo	Time Lost (Days)			Nun	Number Injured		Time Lost (Days)	t (Days)	
CAUSE OF INJURY	Traide	Onteide	Totel	to V	to Work	of in	NATURE OF INJURY	Trefde	On tail do	1	to Work	ork.	of In-
		200		Total	Average					TOT	Total	Average	
Mine pump	2		64	8	88.00	0.38	Finger broken	64	63	*	216	24.00	0.57
Wind Minds	6		10	8	19.00	17.0	cut	14	61	91	246	15.87	2.27
Nati	90	••	11	148	13.00	1.56	Finger infected	=		11	180	18.00	33:1
	=	-	18	991	13.33	2.1	injured	80	64	مد	92	16.20	0.7 L
Piece of sheet fron	63	:	61	ន	11.50	0.28	Finger mashed	18	63	12	200	20.83	2.13
ripe fell	oc .	:	<b>∞</b>	9	5.33	84.0	Finger cut off	63	:	<b>6</b> 3	8	17.50	0.28
Purhice con				<b>8</b>	19.00	7.0	Ω.	22	80	2	<b>₹</b>	22.23	2.52
Pullog wheel	o e	:	ه م	8	8.72	0.71		- ;	:	۳;	88	26.00	0.14
Rail fell	9 00	<u>:</u>	×3 0	3 2	8.8	200	Hand cut	2 °	•	==	28	8.8	88
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Rolling coal	70		10	88	13.60	0.7		63		- 63	88	11.50	2
Воот 10ре	•		•	7	12.38	.8	_	' 닭	-	ង		0.00	8.12
Saw		-	-	13	13.00	0.14	Head bruised	*		*	8	9.00	0.57
Slipped and fell t	<b>3</b> 2	21	8	1,849	83.88	8.30	burned	-		-	0	8.6	0.14
			10	88	12.60	6.7	Head cut +	15		19	186	3.6	2.12
	φ,	_	<b>t</b> - 1	<b>8</b> 2	8.8	8.	Head injured	-		_	•	8.4	0.14
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op minde	99	-	7	<u></u>	3 3	2.41	Hip Druised		:	_	811	10.14	8.
Tools	ν,	,	N (	\$	8.8	88	Hip broken	п (	:			208	0.14
Trolley guard		•	۹ -	80	38	2.5	Internal injury	9 6	•	N 6	88	3.8 8.8	χ; ο,
Trolley wire. live.	. 6	-	- 65	187	. 1		Knee out	•	4	0 7	3	8.5	1
Wire, mine cable			000	134	8 4	0.43	Influred	• 6		r 6	9	90.00	, e
Wheelbarrow		10	10	114	28.80	0.7		6		1 6	8	38	8
Windless	:	61	64	7	80.08	0.28	sprained	60	64	1 14	778	8	ŞĘ
				:			Leg broken	2			8	200	:8
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						:	Nose broken	1.	:	-	10	9	32
t One not returned to work	work.			1	! !\ !:			1		-	8	20,00	7.

1915.—Concluded.	
Lost,	
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<b>Due</b>	
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		nominate randomina	76.7	Men Beturned	,	0001000	_	5 5	Number injured	Dearn	Time Lost (Days)	St (Days)	Ė	_
CAUSE OF INJURY	Inside	Inside Outside	Total	to	to Work		NATURE OF INJURY	Trafida	Ineide Ontaide Total	Į.	to V	men recurned to Work	6 i	
				Total	Average						Total	Total   Average		
					-		Nose cut	_		-	6	2	71.0	-
						_	•	-		-	8	88	0.14	
							Overcome by powder			,	1	:	:	-
							Emoke	-		-	61	19.00	0.14	_
							Pelvís bone broken	61		61	88	101.80	0.28	
						-	Ribs bruised	61	-	*	#17	15.88	0.43	-
							Ribs broken	70		2	ĕ	23.08	8.30	
		_					Shoulder bruised	17	_	12	88	19.06	2.12	
							Shoulder dislocated	61		67	98	8	8	-
							:			-	5	8	0	
								-		-	ع	8	17.	
		_					•	10	60	00	212	8	171	_
	_						٠	-	, ;	7	8	8	71.0	-
		_					prained	61	-	07	2	11.88	8	
		_					Thigh bruised	- 64	-	00	3	25	8	_
						-	Thigh punctured	-		-	8	35.00	0.14	_
		_					brußed	+		4	92	19.00	0.67	
								-		Н	8	8	0.14	
	_						Thumb cut	6		3	118	18.11	8	_
							Thumb cut off +	٥١		84	2	42.00	8	-
							Thumb infected	-		-	88	38.00	0.14	
							injured.		-	-	8	8.8	0.14	
		<del>-</del>				:	Thumb mashed	*		7	101	32.32	0.67	-
							Toes bruised	-	9	4	88	17.00	0.57	_
						:	Toes broken	-	-	10	138	25.28	7.0	
		-				-	Toes infected	67		61	61	9.50	0.28	
		-				-	Toes injured		-	-	83	8	0.14	-
	-	-					Toes mashed	-	61	60	8	20.00	0.48	-
		-					bruised	9		•	25	14.00	98.0	
		-		_			Wrist broken	_	61	93	181	8	0.48	_
								-	-	10	8	18.60	Ç	
			-				Wrist mashed		-	-	•	8	0.14	_
		_				:	sprained	•	-	~	981	9.01	8	
Totals **	25	88	8	18,184	28.05	100.00		2	88	ş	18,194	88.08	100.00	_
			ļ					1		!				-

# RECAPITULATION OF NON-FATAL ACCIDENTS, 1915.

Jured	Inside and Out- side	<b>はここによる説ははものらびことさょる效じょう思めのとのめに影響</b>	
Number Injured	Out- side	4 00000	
Num	In- side	5	!
	NAME OF MINE	Bayne Bue Ganyon Bucoda Goal Co. Burnett Carbonado, outside Carbonado, outside Carbonado, Wingate Carbonado, Meetre Slope Carbonado, No. 9 Carbonado, No. 9 Carbonado, Miler Carbonado, Miler Carbonado, Miler Chedalis Coal Co. Denny-Renton Dyvide Carbonado, Miler Carbonado, Miler Carbonado, Miler Carbonado, Miler Carbonado, Miler Carbonado, Miler Carbonado, Miler Carbonado, No. 9 Carbonado, Miler Carbonado, Miler Carbonado, Miler Carbonado, Miler Carbonado, No. 9 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern Imp. Co. No. 6 Northweetern	
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Number Injured	Out-	H 1000 000117-17 4 8 00 11 00	
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Number Injured	Out- side	85	
Num	In- side	882000000000000000000000000000000000000	
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nred	Inside and Out- side	4188 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	_
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	AJEN EV WALK	MARE UF MINE	Northwestern Imp. Co., outside, Roslyn, Gle Elum Northwestern Imp. Co., Offe Elum Northwestern Imp. Co., Offe Elum Facilic Coast Coal Co., Dip. Pacific Coast Coal Co., No. 11 Pacific Coast Coal Co., No. 14 Ravensdale Ranton Cast Coal Co., No. 18 Ravensdale Ranton Cast Coal Co., No. 2 Roslyn Fuel Co., No. 2 Roslyn Fuel Co., No. 2 Roslyn Fuel Co., No. 2 Roslyn Fuel Co., No. 2 Roslyn Fuel Co., Summit. Spiketon Wilteson, National Coal Co. Wilteson, Summit. Spiketon Wilteson, Summit. Wilteson, Outside Wilteson, South 1 Wilkeson, South 2 Wilkeson, South 2	
9	pam	Inside and Out- side	-4x-8xx	706
1916.	Number Injured	Out-	4 84-6	88
ents,	Num	In- side	a 14a 8a5a99	\$
Recapitulation of Non-Patal Accidents, 1915-		OCCUPATION	Rope man Rope rider Roreler Streener Shoveler Switcher Trambernan hiper Timber packer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Track layer Trac	
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t lou	Number Injured	Out- side		88
late!	Num	In- side		28
Reca		NATION- ALITY		
	Jured	Inside and Out- side		92
	Number Injured	Out- side		22
li	Num	In- side		730
		RESIDENCE		Totals

### NEW EQUIPMENT AND DEVELOPMENT WORK I THE YEAR 1915.

### KING COUNTY.

Carbon Coal and Clay Company, Bayne.

At Carbon mine, has driven 200 feet of gangway, 280 feet of and 390 feet of plane.

At Daly mine, has driven 50 feet of gangway and 530 feet of a

### Denny-Renton Clay and Coal Company.

At Taylor mine, has driven 800 feet of gangway.

At Renton mine, has driven 1,150 feet of gangway in top be

### Durham Colliery Company, Durham.

Has driven 450 feet of gangway, installed ventilating fan at No. 1 and opened seam No. 1 by drift.

Issaquah & Superior Coal Mining Company (Andrew Kenned Operator), Issaquah.

Has driven 964 feet of gangway and 140 feet of rock tunnel.

### Northwestern Improvement Company, Ravensdale.

Has driven 174 feet of gangway and 412 feet of 10'x12' airwa Has installed new 17"x24" Ball engine and double inlet Si fan, capacity 150,000 cubic feet of air per minute against 3" v gauge. Same installed in reinforced concrete fan and engine h

### National Coal Company, Cumberland.

Has driven 300 feet of gangway and 500 feet of slope.

Has installed one ventilating fan and engine, one Ottumwa l 25"x36"; one Montgomery jig washer; one bunker, 600 tons caps and two 100-horsepower boilers.

### Pacific Coast Coal Company.

At mine No. 14, Black Diamond, has driven 640 feet of gang At mine No. 11, Black Diamond, has driven 2,107 feet of gang and installed new washery.

At Cannon mine, Franklin, has driven 40 feet of gangway. mine was closed down in the month of April, 1915. The mine left practically intact for future development and working.

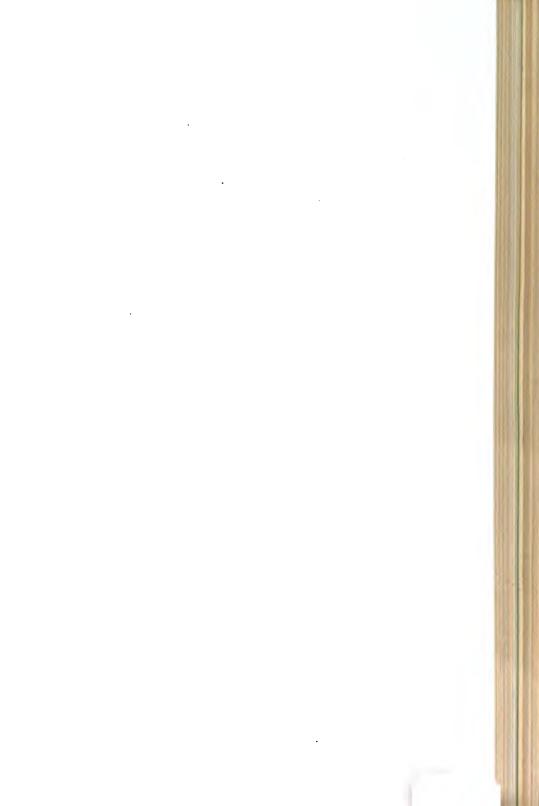
At Ford mine, New Castle, has driven 2,431 feet of gangway.

Puget Sound Traction, Light & Power Company, Renton.

Has driven 2,301 feet of gangway and 3,080 feet of plane.

### Pocahontas Coal and Coke Company, Palmer.

Has driven 150 feet of gangway on No. 2 seam and 500 fe gangway on No. 3 seam.





No. 2 Tipple, Roslyn Fuel Company, near Ronald, Wash.



Trip Coming Out of No. 2 Mine, Roslyn Cascade Coal Co., Ronald, Wash.



### KITTITAS COUNTY.

### Northwestern Improvement Company.

At No. 6 mine, Roslyn, has driven 240 feet of rope-entry, 1,283 feet of entry and 627 feet of auxiliary slope. Has built 500 feet of snowsheds, reopened 1,000 feet of openings for manways and put in 2,800 feet of pipe for outside fire protection.

At No. 3 mine, Ronald, has driven 2,637 feet of entry and 351 feet of auxiliary slope. Has installed electric generator at mine and taken electric wiring out of fan shaft and carried it into mine via manway. Main slope has been extended 300 feet, and 481 feet of main return airway for slope driven. Overcast over slope and manways for west side air to return to fan shaft has been built. Sixteen hundred feet of rope entry reopened above water level. Water spraying system installed in slope workings. Slope manways were cleared of overcasts of no further service, and generally improved. Fourteen hundred feet of two-inch water pipe, water storage tank, fire-hydrants, etc., installed for outside fire protection. New man-cars built to eliminate use of coal-cars for men riding on slope.

At mine No. 5, Roslyn, has driven 4,325 feet of entry and installed new man-cars to eliminate use of coal-cars for men riding on slope.

At mine No. 7, Cle Elum, has driven 3,124 feet of entry and 501 feet of slope.

At Cle Elum mine, has driven 308 feet of entry.

### Roslyn-Cascade Coal Company, Ronald.

Has driven 429 feet of entry at No. 1 mine, and 1,146 feet of entry and 694 feet of slope at No. 2 mine.

### Roslyn Coal & Coke Company, Lakedale.

Has driven 150 feet of entry and 250 feet of slope. Has installed blower fan and engine.

### Roslyn Fuel Company.

At mine No. 1, Beekman, has driven 700 feet of rock slope to seam to the lander Roslyn seam, but the coal was unsatisfactory, so the was shandoned.

At mine No. 2, Beekman, has driven 2,944 feet of entry and 2,917 get of alrway.

feet of Summit mine, Cle Elum, has driven 247 feet of entry, 227 slope, 162 feet of slope airway and 21 feet of sump.

### LEWIS COUNTY.

### East Creek Coal Company, Ladd.

Mine was operated during year on a very small scale and employes were not confined to one occupation. Employed six to seven men only.

Empress Coal Company, Centralia.

Has driven 250 feet of entry.

Ford's Prairie Coal Company, Centralia.

Has driven 450 feet of entry.

Mendota Coal and Coke Company, Mendota. Has driven 500 feet of gangway.

Sheldon Coal Company, Chehalis.

Has driven 400 feet of gangway.

Superior Coal Company, Chehalis.

Has driven 200 feet of gangway.

### PIERCE COUNTY.

American Coal Company, Spiketon.

Has driven 450 feet of gangway.

Carbon Hill Coal Company, Carbonado.

- At Wingate mine, has driven 420 feet of gangway.
- At Douty mine (No. 9 seam), has driven 200 feet of gangwa
- At Miller mine, has driven 550 feet of gangway.
- At No. 6 mine, has driven 200 feet of gangway and installed Platt centrifugal pump, capacity 550 gallons per minute.

Gale Creek Coal Mines Company, Wilkeson.

Has driven 1,200 feet of gangway.

Northwestern Improvement Company, Melmont. Mine was abandoned July, 1915.

Pacific Coast Coal Company, Burnett.

Has driven 979 feet of gangway.

Washington Manganese, Coal and Copper Company, Fairfax

Has driven 948 feet of gangway and installed a settling tank, coke bunkers for ovens, repaired old shipping bunkers, mach and cars.

Wilkeson Coal and Coke Company, Wilkeson.

Has driven 1,550 feet of gangway and 100 feet of slope.

Has installed motors and electrical equipment to change to trical power.

### THURSTON COUNTY.

Washington Union Coal Company, Tono. Has driven 2,136 feet of gangway.

### WHATCOM COUNTY.

Whatcom County Coal Company, Blue Canyon.

Has driven 180 feet of gangway.

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CENATING COMPANIES COMPANIES OF OFFICERS AND		WING FACE		•	_
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NAME OF COMPANY—HOME ADDRESS	Name of Mine	President	Manager	Mining Engineer	
KING COUNTY—  Black River Coal Company, Bayne, Wash Carbon Coal and Clay Company, Bayne, Wash Carbon Coal and Clay Company, Bayne, Wash Denny Renton Clay and Coal Company, Seattle Denny Renton Clay and Coal Company, Seattle Denny Renton Clay Company, Durban, Wash Istantiah & Streeter Coal Mining Company, Seattle Northwester Improvement Company, Seattle Northwester Coal Company, Seattle, Wash Pacific Coast Coal Company, Seattle, Wash Pacific Coast Coal Company, Seattle, Wash Pacific Coast Coal Company, Seattle, Wash Pacific Coast Coal Company, Seattle, Wash Pacific Coast Coal Company, Seattle, Wash Pacific Coast Coal Company, Seattle, Wash Pacific Coast Coal Company, Seattle, Wash Pacific Coast Coal Company, Seattle, Wash Procahontas Coal and Coke Company, Seattle, Wash Seranton Coal Company, Tavoma, Wash	Black River.  Oarbon. Daly. Taylor Nos. 1 and ? Taylor No. 2. Brancon. Brancon. Brancon. No. 14 No. 11 Oannon. Ford. Porahontas.	R. D. Nichols. M. B. Daly. M. B. Daly. M. Thompson. M. Thompson. M. Thompson. M. P. Clough. W. P. Clough. W. P. Clough. J. C. Ford. J. C. Ford. J. C. Ford. J. C. Ford. J. C. Ford. J. C. Ford. J. C. Ford. J. C. Ford. J. C. Ford. J. C. Ford. J. C. Ford. J. C. Ford. J. C. Ford. J. C. Ford. J. R. Miller. E. Hutch'inson.	R. B. Heaston. D. S. Hanley. D. S. Hanley. D. S. Keenan. J. F. Keenan. C. R. Claghorn. C. C. Andersen. Stephon H. Green. Stephon H. Green. William Hann. William Hann. M. I. Kempster. M. F. Barham.	Chas. Nelson Chas. Nelson Chas. Nelson J. L. Parry N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N. D. Moore N.	
Northwestern Improvement Company, Tacoma, Wash, Northwestern Improvement Company, Tacoma, Wash, Northwestern Improvement Company, Tacoma, Wash, Northwestern Improvement Company, Tacoma, Wash, Northwestern Improvement Company, Tacoma, Wash, Northwestern Improvement Company, Tacoma, Wash, Roslyn Fuel Company, Scattle, Wash, Roslyn Fuel Company, Scattle, Wash, Roslyn Cascade Cond Company, Roslyn, Wash, Roslyn, Cascade Coal Company, Roslyn, Wash, Roslyn, Cascade Coal Company, Roslyn, Wash, Roslyn, Coal and Coepe Company, Roslyn, Wash, T. B. Wright & Sons, Roslyn, Wash.	No. 3 No. 5 No. 6 No. 6 No. 6 Cife Filum Cife Filum Summin No. 2 Summit No. 1 No. 2 Plant	W. P. Chugh W. P. Chugh W. P. Chough W. P. Chough W. P. Chough W. P. Chough Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Preseott Cakes Prese	O. C. Andersen C. C. Andersen C. C. Andersen C. C. Andersen C. C. Andersen C. C. Andersen C. E. Jones W. Mackay W. Mackay A. P. Plant	George Reig George Reig George Reig George Reig Fred Blanco Fred Blanco Robt, Scoble, Jr. J. E. Ash	

Operating Companies With Names of Officers and Mining Engineers for the Year 1915.—Concluded.

NAME OF COMPANY—HOME ADDRESS	Name of Mine	President	Manager	Mining Engineer
LEWIS COUNTY—  East Orest Coal Company, Tacoma, Wash  Empress Coal Company, Centralia, Wash  Empress Coal Company, Centralia, Wash  Mendota Coal and Company, Centralia, Wash  Monarch Coal Company, Kopish, Wash  Pennsylvania Coal Company, Kopish, Wash  Superior Coal Company, Chelalis, Wash  Superior Coal Company, Chelalis, Wash	Ladd Signary Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control o	John Bagley M. L. McGraw A. D. Forton B. H. Johnston J. G. Kriebel W. E. Williams W. E. Williams W. P. West W. P. Sheldon	M. L. McGraw B. H. Johnston. F. C. Knowles J. G. Kriebel. W. E. Willams Chas. Johnson. W. F. West.	M. L. McGraw B. H. Johnston J. G. Kriebel W. E. Williams W. F. Williams W. F. Williams W. F. West.
PIEBOE COUNTY— American Coal Company, Spiketon, Wash. Carbon Hill Coal Company, Carbonado, Wash. Carbon Hill Coal Company, Carbonado, Wash. Osrbon Hill Coal Company, Carbonado, Wash. Carbon Hill Coal Company, Carbonado, Wash. Carbon Hill Coal Company, Carbonado, Wash. Carbon Hill Coal Company, Carbonado, Wash. The Fairfax Mine, Inc. The Fairfax Mine, Inc. The Folick Coal Mines Company, Tacoma, Wash. Northwestern Improvement Company, Tacoma, Wash. Facfic Coast Coal Company, Black Diamond, Wash. South Wills Coal Company, Wilkeon, Wash. Willseon Coal and Cobe Company, Tacoma, Wash. Willecton Manganese, Ocal and Oopper Company, Sesttle, Wash.	No. 10.  Wingate.  Douty and Miller  Miller  No. 6.  No. 9.  Fairfax  Gale Creek  Melmonte.  Burnett  Burnett  Willse	W. V. Rinehart. W. H. Crocker. W. H. Crocker. W. H. Crocker. W. H. Crocker. W. H. Crocker. W. H. Crocker. W. R. Rust. Henry Hewitt, Jr. H. C. Ford. J. C. Ford. J. G. Ford. H. Anb. Morris. H. G. Marcy.	·	1. U V. Bean. J. F. Menzles. J. F. Menzles. J. F. Menzles. J. F. Menzles. J. F. Menzles. J. F. Menzles. J. F. Menzles. J. F. Menzles. J. F. Menzles. J. J. Hewitt. J. F. Menzles. J. J. Hewitt. J. J. Hewitt. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. William Hann. Willia
THURSTON COUNTY— Washington Union Coal Company, Tono, Wash	Hamiford	F. A. Manley		R. B. Ober
Whatcom County Coal Company, R. F. D. No. 3, Bellingham, Wash, Blue Canyon R. C. Cilse	Blue Canyon	R. C. Olise		

SUPERINTENDENTS
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NAME
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COMPANIES
OPERATING COMPANIES WITH

		TS AND FOR	STEMINTENDENTS AND FOREMEN OF THE YEAR 1912	E YEAR 1012
NAME OF COMPANY HOME ADDRESS	Superintendent	Mine Foreman	Outside Foreman	P. O. Address – Mine
KTNG COUNTY.  Black River Coal Company, Bayne, Wash. Carbon Coal and Clay Company, Bayne, Wash. Carbon Coal and Clay Company, Bayne, Wash. Denny-Renton Clay and Coal Company, Seattle. Denny-Renton Clay and Coal Company, Seattle. Denny-Renton Clay and Coal Mining Company, Seattle. Northweetern Improvement Company, Seattle. Northweetern Improvement Company, Taronna, Wash. Northweetern Improvement Company, Seattle, Wash. Pacific Coast Coal Company, Seattle, Wash. Pacific Coast Coal Company, Seattle, Wash. Pacific Coast Coal Company, Seattle, Wash. Pacific Coast Coal Company, Seattle, Wash.	And Collum And Collum Ym. Lawton J. E. Kendtner J. A. Williams J. J. Harris R. D. Scott Edwin Tusband R. Christensen R. Christensen R. Christensen R. Christensen R. Christensen R. Christensen R. Christensen	Henry Gunnell Henry Gunnell Jonah Davis T. J. Kane. G. F. Stonebridge M. A. Morgan. Ben Allen Fred Kinny and Fred Clark and Fred Landstrom	Henry Gunnell Henry Gunnell Jonah Davis T. J. Kane. G. F. Rorebridge M. A. Morgan. Ben Allen Fred Ring Pred Landstrom S. W. Peterson. Fred Landstrom S. W. Peterson.	Earlington, Wash. Bayne, Wash. Bayne, Wash. Taylor, Wash. Renton, Wash. Durham, Wash. Issaquah, Wash. Ravensdale, Wash. Gunberland, Wash. Black Diamond, Wash. Black Diamond, Wash. Franklin, Wash.
Puget Sound Traction, Light and Power Company, Scatte, wash. Porahontas Coal and Coke Company, Scattle, Wash. Scranton Coal Company, Taroma, Wash.	B. H. Meyers D. W. Watkins	B. H. Morgan B. H. Meyers D. W. Watkins	Meyers	renton, wasn. Palmer, Wash. Oumberland, Wash.
KITTITAS COUNTY Northwestern Improvement Company, Tacoma, Wash. Northwestern Improvement Company, Tacoma, Wash. Northwestern Improvement Company, Tacoma, Wash. Northwestern Improvement Company, Tacoma, Wash. Northwestern Improvement Company, Tacoma, Wash. Roslyn Fuel Company, Seattle, Wash. Roslyn Fuel Company, Seattle, Wash. Roslyn Cascade Coal Company, Roslyn, Wash. Roslyn Cascade Coal Company, Roslyn, Wash. Roslyn Cascade Coal Company, Roslyn, Wash. Roslyn Cascade Coal Company, Roslyn, Wash. T. B. Wright & Sons, Roslyn, Wash.	Peter Bagley Peter Bagley Poter Bagley Arthur Hodder C. E. Jones Robl. Scoble, Jr W.M. Mackay M. P. Plant T. B. Wright	Thos. Ramsey & Ed. Richards. Walter Snedden. Giorge Morris. James Pascro. Fred Smith. William Shaw Bowle. Scobie, St. James Ash. Joe Oerne. Joe Oerne.	Thos. Ramsey & Robt. Maxwell Ed. Richards. Robt. Maxwell George Morris George Morris George Morris George Morris Fred Smith. E. L. Lanigan. William Shaw. Harry Mounsey. James Ash. Joe Cerno. Peter Birchall.	Roslyn, Wash. Roslyn, Wash. Roslyn, Wash. Cie Flum, Wash. Cre Flum, Wash. Roslyn, Wash. Goslyn, Wash. Goslyn, Wash. Geslyn, Wash. Geslyn, Wash. Roslyn, Wash. Roslyn, Wash.

Operating Companies With Names of Superintendents and Foremen for the Year 1915.—Concluded.

NAME OF COMPANY—HOME ADDRESS	Superintendent	Mine Foreman	Outside Foreman	P. O. Address-Mine
LEWIS COUNTY— East Greek Coal Company, Tacoma, Wash. Empress Coal Company, Centralia, Wash. Empress Coal Company, Centralia, Wash. Mendota Coal and Coke Company, Centralia, Wash. Monarch Coal Company, Kopiah, Wash. Monarch Coal Company, Kopiah, Wash. Superior Coal Company, Mineral, Wash. Superior Coal Company, Chehalis, Wash.	E. H. Morgan. J. G. McMullen. Matt Paker. B. H. Taylor.	John Meeko E. H. Morgan R. Tarrach J. G. McMullen J. G. Kriebel Wm Bevan Matt Paker B. H. Taylor	John Mecko. R. H. Morgan. R. Tarrach J. G. McMullen. Wm. Bevan. W. Heykel. Matt Paver. B. H. Taylor.	Ladd, Wash. Centralia, Wash. Centralia, Wash. Mentralia, Wash. Kopith, Wash. Kopith, Wash. Chehalis, Wash. Chehalis, Wash.
PIERCE COUNTY— American Coal Company, Spiketon, Wash. Carbon Hill Coal Company, Carbonado, Wash. Carbon Hill Coal Company, Carbonado, Wash. Carbon Hill Coal Company, Carbonado, Wash. Carbon Hill Coal Company, Carbonado, Wash. Carbon Hill Coal Company, Carbonado, Wash. Carbon Hill Coal Company, Carbonado, Wash. The Fairfax Mine, Inc. The Fairfax Mine, Inc. Carbon Hill Coal Company, Carbonado, Wash. Northwestern Improvement Company, Tacoma, Wash. Pacific Coal Company, Wilkecon, Wash. Willis Coal Company, Wilkecon, Wash. Wilkecon Coal and Ooke Company, Tacoma, Wash. Wilkecon Coal and Ooke Company, Tacoma, Wash.	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R. Roberts   Good   Joseph Foster   Good   Googe Love   Good   Good   Gwen Roberts   Good   Gwen Roberts   Good   Gwen Jones   Rockefeler   G. E. Rockefeler   G. E. Rockefeler   G. E. Rockefeler   G. E. Rockefeler   G. E. Rockefeler   G. E. Rockefeler   Good   J. E. Rockefeler   Good   J. E. Rockefeler   Good   J. E. Rockefeler   Good   J. E. Rockefeler   J. E. Rockefeler   J. E. Rockefeler   J. E. Rockefeler   J. E. Rockefeler   J. E. Rockefeler   J. E. Rockefeler   J. E. Rockefeler   J. E. Rockefeler   J. E. Rockefeler   J. E. Rockefeler   J. E. Rockefeler   J. E. Rockefeler   J. E. Rockefeler   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilson   J. J. Wilso	Chas. Skedgel Chas. Skedgel Chas. Skedgel Chas. Skedgel Chas. Skedgel Chas. Skedgel Chas. Skedgel Mat. Jonas R. C. Albertson Martin Swinland.	Spiketon, Wash. Carbonado, Wash. Carbonado, Wash. Carbonado, Wash. Carbonado, Wash. Carbonado, Wash. Fairfax, Wash. Fairfax, Wash. Melmont, Wash. Burnett, Wash. Wilkeson, Wash. Burnett, Wash.
THURSTON COUNTY— Washington Union Coal Company, Tono, Wash	E. S. Brooks	Charles Friend	E. S. Brooks Charles Friend H. A. Wylan Tono, Wash. Andrew Eckland.	Tono, Wash. Park, Wash.

### Coal Mine Statistics for the Year 1916.

### SUMMARY.

### The Following Summary for the Years Ending December 31, 1915, 1916, is Here Presented.

SUMMARY	1915	19
Number of counties producing coal	6	
Number of mines and openings of all kinds	58	
New mines or old mines reopened during the year	3	
Mines closed, abandoned, or not heard from since last report.	3	_
Total production of coal (short tons)	2,409,331	3,0
Total value of coal at mine	\$5,898,524	\$7,1
Average value of coal at mine, per short ton	\$2.24	
Total production of coke at mine, short tons	88,696	_
Total value of coke at mine	\$471,752	\$4
Average value of coke at mine, per short ton	\$5.82	
Total number of inside employes	3,683	
Total number of outside employes (including coke workers)	1,145	
Total number of employes	4,828	
Average number of days operated	166	
Yearly production per employe (short tons)	498	
Daily average short tons per employe	3.01	
Number of men accidently killed, inside	42	
Number of men accidently killed, outside	3	
Total number of men accidently killed	45	
Number of widows	28 50	
Number of orphans		1
Number of lives lost per 1.000 employes, inside	58,540 11.40	] ]
Number of lives lost per 1,000 employes, inside	11.40 9.82	l
	9.82	
Number of non-fatal accidents, inside	024 82	
Total number of non-fatal accidents. Outside	706	
Number of tons mined per non-fatal accident, inside	706 3,861	
Number of tons mined per non-fatal accident, inside	3,861 29,882	ļ
Tons mined per non-fatal accident, inside and outside	29,882 3,413	
Number of non-fatal accidents per 1.000 employes, inside	169.4	
Number of non-fatal accidents per 1,000 employes, inside	71.6	
Non-fatal accidents per 1,000 employes, inside and outside	146.2	
Number of injured returned to work, inside and outside	140.2 608	ł
Time loss of injured returned to work, inside and outside	18.1841	1
Average time loss of injured returned to work, days	26.05	ţ

### PRODUCTION OF COKE BY COUNTIES.

COUNTY	1915	191
Pierce	88,695	9

## PRODUCTION OF COAL BY COUNTIES, 1915.

PTHUOO	Tons of Ooal Shipped	Sold to Local Trade	Used for Power	Charged Into Coke Ovens	Total Coal Production	Total Value	Average Value Per Ton at Mine	Average Number of Days Operated	Average Number of Em- ployes
King Kittitas Lewis Plereo Plereo Whatcom	703,606 880,851 88,480 827,600 107,776	18,600 11,864 11,806 8,620 678	18,609 62,602 13,564 84,877 11,306 4,464 8,690 80,227 ° 140,750 8778 9,742	• 140,750	844,996 879,062 78,259 488,688 112,006 6,255	\$1,751,667 2,044,081 132,915 1,251,708 }	1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	155 127 138 138 157 282	1,856 1,584 1,179 104
The State	2,008,585	48,067	125,482	140,750	2,409,881	\$6,398,524	72 28	166	4,828

This coal is included in coal shipped from the other mines. * 3,513 tons purchased and charged into coke ovens at Fairfax.

### PRODUCTION OF COAL BY COUNTIES, 1916.

VTMUOO	Tons of Coal Shipped	Sold to Local Trade	Used for Power	Charged Into Coke Ovens	Total Coal Production	Total Value	Average Value Per Ton at Mine	Average Number of Days Operated	Average Number of Em-
King Kittitas Lewis Petros Thurston Whatcom	807,078 1,251,628 89,215 876,854 1169,740 6,988	16,982 65,297 20,070 45,295 14,885 5,881 4,606 8,969 + 150,674 1,080 4,246	65, 297 45, 295 5, 681 8, 956 4, 246	+ 150,674	889,275 1,316,998 109,121 583,162 165,066 5,988	\$2,256,588 3,064,276 196,286 1,807,816 271,857	25 25 25 25 25 25 25 25 25 25 25 25 25 2	252 197 197 250 250 250 250	1,766 1,518 147 1,179 128
The State	2,680,996	87,018	129,848	+ 150,674	3,019,600	\$7,156,817	28 25	813	4,746
†7,431 tons purchased and charged into coke ovens at Fairfax. This coal is included in coal shipped from the other mines	ged into coke	ovens at Fair	fax. This co	al is included	in coal shipp	ed from the	other mines.		

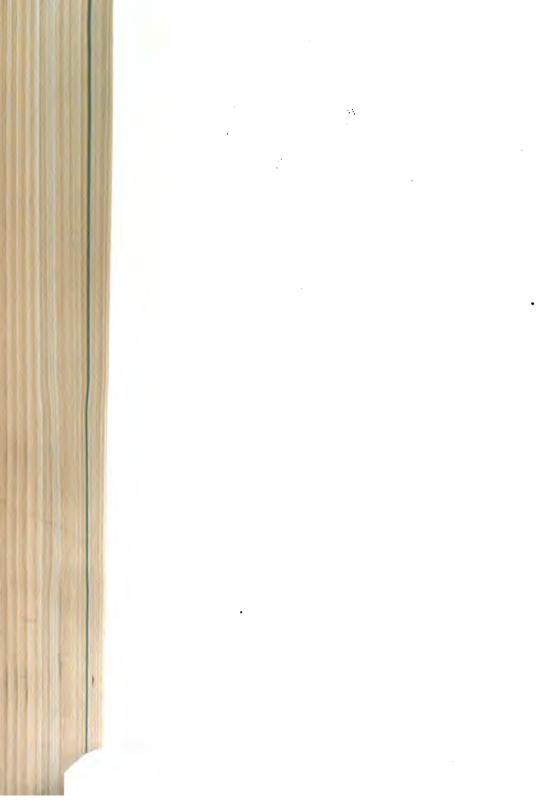
	Out- side Em- ployes		19 22	822	학일	149	84	<u>2</u>	212	នង	<b>3</b> 8 9	305	325	!-
	Inside Em- ployes	888	# 8 E	501 85		<b>8</b> 2	188	1,288	88	38	8 51 6	523	<b>383</b>	} <b>∞</b>
ļ	Days Oper- ated	134 302 172	1 88 5	288	• ភ្ល	8 8 8	997	2,666	25 EE	38	2 22 2	388	382	28
	Total Coke Pro-													
!	Total Coal Pro- duction	24,067 188,671	7, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98 1, 98	14,800 14,800	8,148 206,975	301,563	186,208	889,275	7,271	243,507	186,881 186,881 186,881	7,178	116,624	Š
<b>9</b>	Charged Into Coke Ovens			:::				:						Ì
AR 191	Used or Fower	6,528 16,806	25 98 25 98	1,731	98.69 58.69	21,817 670	10,248	65,267	7, 14,981	6,120	, , , ,		 \$ <b>\$ \$</b>	
E YE	Sold to Em- ployes and Local Trade	28.56	\$ & &	£ 85 8	11.66,	88 8	4,081	16,982	8,172	28 28	25.00	A	88.5	
OR TE	Tons of Coal Shipped	23,738 51,806 4,223	30,213 15,529	12,240	2,877 198,481	278,708 10,873	120,874	807,076	6,496 218,506	236,534 153,127	132,446 84,46	98	114,725	춦
FISTICS !	County	King King King	King King	King	King	King	King		Kittitas	Kittitas	Kittitas	Kittitas	Kittitas	Kittitna
COAL MINING STATISTICS FOR THE YEAR 1916.	Town	Issaquah Bayne Taylor	Durham	Issaquah Cumberland	Blek Diamond Blek Diamond	New Castle Palmer	Rent on				Cle Ehim.	Rottald	Beckman Ole Elum	Lakedale
COAL M	Name of Mine	Grand Ridge Carbon & Daly Nos. 1 and 2	Nos. 1 and 2 Hyde.	Issaquah Nos. 1 and 3	No. 14 No. 11	Forahontas	Renton		No. 1.	No. 8	Cle Flum	Plant	No. 2. Summit	No. 1
	No. of Mines	H 60 61	- : -	r- 01 r			-	18		<b></b>		·		-
	NAME OF MINE	~~~,	Durham Colliery Company  Hyde Coal Company		Pacific Coast Coul Company.	Pacific Coast Coal Company  Pocahontas Coal & Coke Company  Puzet Sound Traction. Light &	٠.	Totals	Independent Coal & Coke Company. Northwestern Improvement Co	Northwestern Improvement Co	Northwestern Improvement Co	Roslyn Coal & Coke Company	Roslyn Fuel Company Roslyn Fuel Company	T. B. Wright & Sons



Incline to Carbon River, Carbon Hill Coal Co., Carbonado, Wash.



Yards on Carbon River, Carbon Hill Conl Co., Carbonado, Wash.



r Inside side Em-	186 14 2 800 4 2 188 12 4	150 150 255 125 125 138 125 138 138 138 138 138 138 138 138 138 138	85 118 29	27:9 838 166 22: 66 10 25: 156 50 115: 41 14 68 19 10	8 % OI	25 799	19:) 98 35	190 98	289 12 2	289 12 2	15 8,596 1,150
Days Oper-		<u>:</u>	1,565			2 1,662	<b>≍</b>	= :	:	**************************************	8,645
Total Coke Pro- duction					2,686 48,527	88,722	:				88,728
Total Coal Pro- duction			109,121		16,108 4,212 108,357	588,162	165,006	165,066	5,983	5,983	8,019,600
Oharged Into Coke Ovens		:	 	:	23,463 72,834 834,834	\$150,674					129,348 \$150,674
Used for Power	1,110	2,689 111 516 681 681	5,360	6,454 300 1,645 880		8,950	4,246	4,246			129,948
Sold to Em- ployes and Local	1,154	258	14,825	2, 22, 1 5,72 1,384 5,55	92	4,606	1,080	1,080			57,018
Tons of Coal Shipped	8,141 4,521 7,943	4,978 5,988 1,600 6,067	80,215	196,781 31,446 98,988 26,727 3,729	22,73	876,354	159,740	159,740	5,983	5,983	2,689,996
County	l owis Lewis Lowis	l cwis Lewis Lewis Lewis		Peræ Peræ Peræ	Plerce Plerce		Thurston		Whatcom		
Town	Centralla Ladd Centralla	Nendota Koplah Chehalis Centralia		Carbonado Wilkeson Burnett Spiketon	Fairfax Fairfax		Топо		Parke		_:
Name of Mine	Emprœs No. 3. Fords Prairie.	No. 1 No. 1 Sheldons Salzer Valley No. 2		Carbonado Gale (Yeek Burnett No. 10	Fairfax Marcy		Tono No. 1		Blue Canyon	:	_:
No. of Mines			6	9		14	г	-	1	-	18
NAME OF MINE	Centralla Coal Mining Company East Creek Coal Company Fortis Prafric Coal Company	Presentation of Company Mendera Coal & Code Company Mendera Coal Company Sheddon Coal Company Salzer Valley Coal Company Salzer Valley Coal Company Superior Coal Company	Totals	Carbon Hill Coal Company Gale Creek Coal Mines Company Pacific Coast Coal Company South Willis Coal Company South Willis Coal Company	The Fairfax Mine Incorporated Washington Manganese, Coal & Copper Company	Totals	Washington Union Coal Company	Totals	Whatcom County Coal Company	Totals	Grand Totals

+ Less than ten men employed and no other data available. Permerly The American Coal Company. \$7,431 tons purchased from other mines and charged into the ovens at Fairfax.

Table Showing Number of Days Operated,* Total Number of Employes Per. Mine, Short Tons Per Mine Per Year,

ploye rei Day, at Each mile, 1910.							
NAME OF COMPANY	County	Average Days Operated	Total Number of Em- ployes	Short Tons Per Mine Per Year	Average Short Tons Per Mine Per Day	Average Short Tons Per Employe Per Year	Average Short Tons Per Employe
Andrew Kennedy Company-Grand Ridge Mine	Klng	181	ß	24,007	180	300	83.7
Carbon Coal and Clay Company—Bayne Mines t.	King	208	55	58.671	ž	784	2.40
Denny-Renton Clay and Coal Company-Taylor t.	King	172	평:	20,886	គ្ន	829	8.
Denny-Kenton Clay and Coal Company-Kenton	King	5 85 52 85	<b>=</b> 2	- 9 8 8 8	នគ	8 %	2.20 2.20
Hyde Coal Company	King	in.	28	16,596	3	8	83
Issaquah and Superior Coal Mining Company	King	<b>5 8</b>	3 8	2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	₹ 2	<b>8</b> 9	<b>3</b> 9
Ozark Coal Company—Navy Mine	King	38	38	98.9	3 25	8 58	2.1
Pacific Coast Coal Company-Mine No. 14-Black Diamond	King	00	198	8,148	8	92	1.7
Pacific Coast Coal Company-Mine No. 11-Black Diamond	King	ឆ្ល	8	206,975	88	<b>8</b>	2.18
Pacific Coast Coal Company—Ford Mine—New Oastle	King	200	<b>2</b> 8	801,568 :-	Ž.	888	8.5
Puget Sound Traction, Light and Power Company—Renton Mine	King	1 12	88	186,208	38	3 28	2.8 2.8
The County		• 196	1,766	889,275	988	202	2.50
Northwestern Improvement Company—No. 6	Kittitas	S	22	241,611	8	1,041	4.15
	Kittitas	<b>9</b>	8	248,607	818	8	<b>8</b> .6
Northwestern Improvement Company—No. 5	Kittitas	3 5	88	198,681	3 2	88	8.78
Improvement	Kittitas	28	9	186.968	2 25	8 8	2
Roslyn Cascade Coal Company-Nos. 1 and 2 t	Kittitas	212	8	67,017	92	2	8.67
Rosiyn Coal and Coke Company—Plant Mine.	Kittitas	184	នាទ្ធ	7,178	<b>8</b> 8	88	9. n
Pool	Kittitas	22	199	116,524	819	1,10	8
Company	Kittitas	143	<b>5</b> 5	20,788	15	<b>8</b>	2.57
Incopendent Coal and Coke Company §	Kittitas	88	<b>3</b> 8 <b>₹</b>	7, 208	51 eo	28	e. 88
The County	1	• 224	1,518	1,816,998	690	870	88.88

TABLE Showing Number of Dave Contract Trees of	M.	very Ployee Per	r Mine, 'e Per ≺	Coloyee Per Mine, Short Tons Per Mine Per Vear	ne Per age 8ho	Mine p	٠ ۲	-
Average Short Tone Per Mine Per Day, Average Short Ton	e		i	, ;	ı		Per Em	_
ploye Per Day, at Each Mine, 1916Concluded.			Total	  -  -				
NAME OF COMPANY	Oounty .	Average Days Operated	H . #	Short Tons Per Mine Per Year	Average Short Tons Per Mine Per Day	Average Average Short Short Tons Per Tons Per Employe Employe Per Year Per Day	Average Short Tons Per Employe Per Day	
Centralla Coal Mining Company—Empress East Greek Coal Company—Ladd Mine No. 8 Fords Prairie Coal Company Fords Prairie Coal Company	Lewis Lewis Lewis	86 88 88 88	18 0	8,625 4,621 10,807	<b>8</b> 32	5 4 5 8 4 5	80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80.00 80 80 80 80 80 80 80 80 80 80 80 80 8	
Mendota Coal Company Refer burning Coal Company Monarch Coal Company Rheidon Coal Company	ewis ewis ewis	5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	2,08	5,086 25,089	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	75.88 88.88	2,70,80 2,50,30	
Salzer Valley Coal Company. Superior Coal Company.	Lewis.	200	45	1,700	##	66 158	8.40 2.51	-766/1
The County		* 187	147	109,121	57	780	88.88	
	Plerce	288	\$8	240,124 32,018	881 881 881 881	\$8	2.03	
	Pierce	\$ 8 5Z	§ \$8 F8	8,104 104 104 104 104	888	148 517		
	Pierre Pierre	28 88 27 88 88	8 tr <b>8</b> 8	16,106 4,212 106,387	略 <b>웞凝</b>	8 2 3 8 2 3		nep
The County		- 25	1,179	588,162	988	452	1.80	
Washington Union Coal Company-Tone No. 1 Thurston	Fhurston	196	128	165,066	88	1,280	6.48	
The County		186	128	165,066	88	1,289	6.48	
Whatcom County Coal CompanyBlue Canyon   Whatcom	Whatcom	280	71	5,983	ដ	427	1.48	
The County.		280	14	5,983	Z	124	1.48	
The State.		\$ 218	4,746	8,019,600	814	989	2.91	
* Found by dividing the sum of the products of the total number of men employed. ; Does not include office workers. Includes coke oven w	men employed and days worked at each mine by the total number of workers. † All mines.	i and day	's worked	at each m	ine by th	e total n	imber of	

Table Showing Average Days Worked,* Number of Men Employed, and Dally Output in Short Tons Per Employe, By Counties, For the Years 1905-1916.

	X	KING COUNTY	TT	KITT	KITTITAS COUNTY	YTMO	OLAI	dlallam oounty	TINO	LE	LEWIS COUNTY	X.I.N	FIE	PIERCE COUNTY	TINI
EAR	YEAR Average A	Average Number of Men	Daily Output per Man	Average Days Worked	Average Number of Men	Dally Output per Man	Average Days Worked	Average Number of Men	Dafly Output per Man	Average Days Worked	Average Number of Men	Daily Output per Man	Average Days Worked	Average Number of Men	Dally Output per Man
92		1,701	88	216	2,848	2.58				254	2	0,40	898	841	20.08
+		1,787	88	247	2,244	2.57				818	97	9:0	2	1,008	1.78
		1,92	2.6	8	22.	20.00	8	٠,	200	ģ	3	8 8 N	23	200.	1.6
1900	8 5	282	, 64 44 45 45 45 45 45 45 45 45 45 45 45 45	1906	200.0	\$ <del>\$</del>	3 8	2 8	88	242	98	8.5	8	200	8.6
		2,028	2.80	275	2.186	8.18	F	-	83:1	98	S	2.29	88	1.554	1.78
		1,900	25.50	28	1,987	8.83				212	213	2.74	812	1,497	1.91
8		2,028	2.28	202	1,748	8.50				185	<b>8</b> 8	2.40	526	1,484	2.15
89		2,417	2.16	និ	1,584	3.67				981	203	28.38	276	1,385	
4		2.856	2.86	28	1.88	8.78				116	83	3.65	396	1.240	1.78
2		1.860	2.91	121	1,584	4.51				188	188	4.16	285	1.170	1.7
8		1.788	2.50	3	S. F.	8				28	177	8	8	170	8

* The sum of the average number of employes at each mine is considered the total for each county and the State as the case may be. The average number of days the total number of man were at work in the county or State is found by dividing the sum of the products of the total number of men employed and days worked at each mine by the total number of men employed. The difference between the average number of days the total number of men were at work, and consequently the daily output per employe, in the above table and those of the previous reports for the same years is due to a difference in the method of calculating same. + Forty-four men inside and thirty-three outside at the Great Western Coal and Development Company's mine, Tanino, Thurston county, for year 1906. Wilkeson Coal and Coke Company mined 25,161 tons and worked 75 days during last three months of 1906.

Table Showing Average Days Worked,* Number of Men Employed, and Dally Output in Short Tons Per Employe, By Counties, For the Years 1905-1916.—Concluded.

	!	1	i .	;		!'	!	  - 	i	i		!		
	00 W	OWLITZ COUNTY	YTV	THUR	thurston county	UNTY	WHAT	WHATOOM COUNTY	YTM		THE	THE STATE		
EAR	Average Days Worked	Average Number of Men	Daily Output per Man	Average Days Worked	Average Number of Men	Dally Output per Man	Average Days Worked	Average Number of Men	Dally Output per Man	Average Days Worked	Average Number of Men	Daffy Output per Man	Shifts (Men-days)	
				130	-	1.37				982	4,976	2.43	1,178,757	
				106	11	3.			-	257	5.227	2.45	1.341.108	
		8		186	142	1.38	175	8	0.24	012	6,118	2.38	1,648,819	
				100	4.	1.98	317	23	1.8	218	5,341	5.58	1,161,973	
1909.				142	33	4.85	222	ಸ	1.58	247	5,725	20.0	1,412,578	
1910.				163	47	3.91	SS SS	83	38	792	6,121	2.46	1,619,142	
				198	300	8.	811	16	6.7	234	5,781	2.62	1,355,692	
		-		220	168	3.00	383	8	1.24	225	5,673	2.62	1,277,423	
1918				208	21	4.39	883	15	1.88	155	9.086	2.92	1.521.199	
1914				153	38	.c.	285	18	1.20	000	5,647	2.00	1,181,980	
1915.		-	-	157	ğ	98.9	82	65	1.48	165	1,828	8.01	786,786	
916				861	128	84.9	986	11	1.48	218	4.748	5.6	1.085.546	
					-				-			-		

* The sum of the average number of employes at each mine is considered the total for each county and the State as the case may be. The average number of days the total number of men were at work in the county or State is found by dividing the sum of the products of the total number of men employed and days worked at each mine by the total number of men employed. The difference between the average number of days the total number of men were at work, and consequently the daily output per employe, in the above table and those of the previous reports for the same years is due to a difference in the method of calculating same.

+ Forty-four men inside and thirty-three outside at the Great Western Coal and Development Company's mine, Tenino, Thurston county, for year 1906. Wilkeson Coal and Coke Company mined 25,161 tons and worked 75 days during last three months of 1908. the year 1906.

						COAL	COAL PROM							OOKE	COKE FROM	
YEAR	ALABKA	SKA	NEW YORK	CORK	BALT	BALTIMORE	BRIT	BRITISH COLUMBIA	AUSTRALIA	ALIA	J.	TOTAL	ENG	ENGLAND	Ş.	TOTAL
-	Ton-	Value	Ton- nage	Value	Ton-	Value	Ton- nage	Value	Ton- nage	Value	Ton-	Value	Ton- nage	Value	Ton- nage	Value
1918			<u> </u>	:	4,202	198,99	24,559	\$96,005	1,606	\$4,198	90,966	\$166,190	:		:	
1914	478	\$6,880	4,730	\$14,190			45,118	206,000	:	i	50,816	226,088	:		<u>:</u>	<u>:</u>
1915			2,800	8,156	10,189	98,739	80,460	356,779	##	2,900	188,881	396,596	1,606	\$11,960	1,606	\$11,960
1916	_			_	2,911	9,583	9,583 155,129 650,842				158,040	880,875	-			_:  
* Compiled from reports of State Mine Inspectors and Port Wardens, Port of Seattle.	from r	eports o	f State	Mine In	pectors	and Pol	rt Warde	ns, Port	of Sea	ttle.						
	EX	PORT	S OF C	OAL A	NDC	OKE I	LONG	EXPORTS OF COAL AND COKE IN LONG TONS FROM THE PORT	FRO	HH	E POR	r of St	OF SEATTLE.	#. #.		
								8	COAL TO							
YEAR		COAS	COASTWISE POINTS	10	LOCAL POINTS	INTS	HAN	HAWAIIAN ISLANDS		ALASKA	5	BERL	Bering sea		CANADA	ΨC
	H	Tonnage	Value	Tonnage	- ,	Value	Tonnage	Value	Tonnage		Value	Tonnage	Value		Tonnage	Value
904 1908	_ : :					'-										
909. 910. 1911.		282,686,686,000 66,129	1, 921, 836 1, 570, 885 816, 402	:			81.5¢		17,854		875,008 08,118 87,845	10,580 10,580	18,708 18,708 40,880	7 89 738 738		85, 2, 2, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25,
1913. 1914.		22,425 22,615 15,887	8.32 8.32 8.32	18,618		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		200.00 200.00 200.00			88,88 88,88 88,88	8 4 6 8 8 8	5,82 8,83			88. 88. 88. 88.

		TOTA I.	Value	\$48,299 17,889
		TO	Tonnage	8,899
.pepnjog	OOKE	FOREIGN	Value	1,990,688 19,990,688 194,067 1985,808 190,777 1815,839 1422,763 1815,844 1422,763 1815,844 1422,763 1815,844 17,889
	8	POR	Tonnage	38 86 86
Exports of Coal and Coke in Long Tons From the Port of Seattle.—Concluded.		DOMESTIO	Value	3,611 \$17,888
the Port		DOM	Tonnage	3,611
From		TOTAL	Value	11, 122, 131 1, 900, 608 1, 900, 608 1, 900, 134 143, 005 180, 727 180, 943 172, 763
ong Tof		TO	Tonnage	589,880 887,538 808,600 506,600 10,259 86,738 289,881 110,114 110,114 87,778
Joke In L	00 T TO	SOUTH AMERICA	·Value	819 \$1,120
D Pue /a	7007	SON	Tonnage Value	8
0   5   2		M EXICO	Value	88 72
Expor		ME.	Tonnage	8,5
		YEAR		997. 1908. 1909. 1900. 1911. 1913. 1913. 1918. 1919. 1919. 1919. 1919.

COAL AND COKE IMPORTS AND EXPORTS TO AND FROM THE PORT OF TACOMA IN LONG TONS, 1900-1916.*

				COAL						OOKE	M.	
	IMP	IMPORTS		EXP	EXPORTS				IMPORTS	RTS	EXPORTS	RTS
LAK	Tonnage	Value	Coastw	Coastwise and Domestic	For	Foreign	Ĭ	Total	Tonnage	Value	Tonna	Valla
			Tonnage	Value	Tonnage	Value	Tonnage	Value				
1900.							624,564 636,106 870.484	\$1,967,377 2,008,734 1,166,867				
1908 1904 1906							491,596 444,165 206,612	1,548,627				
1906 1907 1908							+ 124,230 184,711 106,151					
1909. 1910. 1911. 1912.	7,080			\$407,498	<u> </u>	\$119,028	98,42,52 180,886,88 180,886,88	616,524				
1914 1914 1915	55.5	2,502,2	15,100	76,223 29,880	886	114,608	151,241 44,980 57,452 66,071	190,826 215,736 820,018	None	None	24,164 88,720	\$183,148 216,508
* Compiled from Mine Temestor's Renorts and stetements furnished by the Harbormasias Day of Paroms.	ne Inspect	or's Renort	-	ternente fu	rnished by	the Harbo	rmantar	Don't of Th	aroms.	!		

· compass from mine inspector's Reports and statements furnished by the marbormagicy, [101] of Tacoms. 
† For nine months only. I From British Columbia.

COAL AND COKE IMPORTS AND EXPORTS INTO AND FROM DÍSTRICT NO. 30, DÍSTRÍCT OF WASHINGTON, IN LONG TONS, 1908-1916.*

		EXPORTS  On- Value			28.361 268,361
	COKE	EXPC	Ę	13.00	928 45, 592 45, 247 18248, 014 None None 147, 550 263, 361
,	00	IMPORTS	Valle		\$65,502 None
'	:	IMP	Ton.	nage	928 None
	1		Total	Value	+ 1155, 191   \$416, 296   155, 191   \$615, 290   697, 689   105, 909   697, 689   105, 909   877, 10, 942   87, 131   922   \$55, 247   \$248, 0.04   214   1, 545   \$10, 275   897, 784   10, 489   411, 229   None   None   447, 500   263, 391
			Tc	Ton-	155,191 106,809 10,942 10,489
, <b>:</b>		EXPORTS	linous	Value	8615,296 507,689 86,787 86,784
-		EXI	Bituminous	Tonnage	+ 1155, 191 \$615, 296 1155, 191 + 105, 909 307, 789 105, 909 106 \$8994 10, 888 89, 257 10, 942 214 1, 545 \$ 10, 275 89, 784 10, 489
	ļ		Anthracite**	Value	106 8894 10,826 106 8894 10,826
, , }	į		Anth	Ton- nage	
	COAL		Total   Value		\$492,690 389,586 389,150 379,150 258,892 175,652 406,124 476,388
			To	Ton- nage	114,386 98,000 98,000 86,000 86,902 43,348 114,499 194,490
		IMPORTS	Bituminous	Value	\$401,732 \$29,566 \$79,150 256,892 177,655 406,124 476,140
1		IMI	Bitum	Ton- nage	10,065 88,000 86,005 80,002 80,902 43,348 114,470 114,470
			Anthracite**	Value	1908. 9,733 \$60,069 1900. 1911. 1912. 1918. 1918. 29 198
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* Compiled from Mine Inspectors' Reports and statements from Collector of Customs, Seattle. No reports of exports 1906-1912 are available. Includes coal coming in at eastern boundary ports of this district from Crows Nest Pass field. Fro British Columbia, excepting 100 tons of coal, value \$384, to Chill. + To British Columbia. ; From British Columbia. "" There is no anthracte produced in Washington. Scale of wages in effect from September 1, 1916, until 231, 1918, as per agreement between Washington Coal Operators ciation and the United Mine Workers of America, District No.

## DAY WAGE SCALE.

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### Outside Mine

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Carpenters, first         3 86           Carpenters, second         3 30           Car repairers         3 00
Choppers       3 00         Screeners (men)       2 40         Screeners (boys)       1 90
Moving picking table (men) 2 40 Moving picking table (boys) 1 90 Outside labor 2 76
All classes of labor not specified shall receive 15 cents per day increase.

## DETAILED SYNOPSIS OF FATAL ACCIDENT'S OCCUR-RING IN THE STATE OF WASHINGTON FOR THE YEAR 1916.

Injured December 20, 1915; died January 13—Puget Sound Traction, Light and Power Company, Renton mine, Renton: P. J. Connell, nationality American, aged 41 years, occupation timberman, married. Sustained an injury by falling on a pick which he had stuck in a timber near where he was working in the mine. The point of the pick entered his body just below the heart, making a wound about five inches deep and probably puncturing the left lung. He was taken to the Renton Hospital, where he remained about one week, when he was removed to his home. On January 13, 1916, he died as a result of complications in the other lung. He leaves a widow.

Injured and died January 17-Mendota Coal and Coke Company, Mendota mine, Mendota: John G. McMullen, nationality American, aged 46 years, occupation mine foreman, married. Sustained injuries from an explosion of powder while in the act of opening a keg of black powder. The deceased attended personally to the distributing of explosives. On the day of the accident the mine was idle and the deceased intended to open the powder in the powder house and fill the canister for the men coming on the next shift. Instead of opening the black powder cans by removing the cover over the bung in the regulation manner, an opening was made by means of driving a wooden wedge into the top of the keg by means of a wooden mallet. According to an ante-mortem statement made by the deceased he started to open a keg in the above manner and the explosion followed immediately, exploding six or eight kegs of black powder. The deceased was severely burned and died twelve hours later. He leaves a widow and three children.

The exact cause of this accident could not be determined and various theories were advanced for its cause. The powder magazine was of brick and had a concrete floor. An automatic filler was used for filling the canisters and all movable parts and contacts were of copper. The inspector recommended that at all mines where black powder is used that the kegs be opened in the regulation manner by removing the slide over the bung.

January 19—Northwestern Improvement Company, mine No. 3, Ronald: Elijah Cox, nationality English, aged 78 years, occupation miner, married. Killed by flying coal from shots, about 4:30 p. m. in mine No. 3. The deceased and his partner, W. B. Scott, had prepared three shots in their room which they were to fire at quitting time that evening. Scott lighted two shots on the left rib and the deceased was to light one on the other rib of the room. When Scott lighted his shots he warned the deceased and left the room. The

deceased had some trouble lighting his shot and called Scott ba assist him. When Scott returned the two shots went off, killing deceased and fracturing Scott's right leg in three places. The ceased leaves a widow.

The coroner's jury returned a verdict of carelessness on the of the deceased miner.

One bad feature of this accident I wish to call to the attered of all superintendents at mines where no checking system is a On the day of the accident the deceased and his partner, Scott, the last men to shoot in this entry, and as no checking system used the mine officials did not know that the deceased and Scott still in the mine. Their families did not notify anyone that they not come home until 10 o'clock that night. It was after mid before the mine foreman was notified, and Scott, the injured lay suffering in the mine from the time of the accident, 4:30 puntil after midnight before he was rescued. Some checking syshould be used at every mine so that the officials would know all men are out, so in case of accident there would be no unnecedelay in rendering assistance.

March 17—Pacific Coast Coal Company, Ford mine, New Candrew Lucis, nationality Greek, aged 27 years, occupation is laborer, single. Killed by being struck by a runaway trip. The ceased and two other men were cleaning the switches at the level. Coal was being hoisted from the second level at the time changing the trip at the top of the slope, the cager let a trip of empty cars run down the slope, which dips about forty-five degree The runaway cars kept the track until they reached the first when they left the track. The deceased was caught in the wree and died shortly after from injuries received.

A safety block was installed at the top of the slope in ord try and avoid runaway trips from above the knuckle.

April 13—Northwestern Improvement Company, mine Nanald: Joe Bertino, nationality Italian, aged 34 years, occup miner, married. Electrocuted by coming in contact with a live twire on the fourth west entry. The deceased and his brother working in No. 13 pillar, which had been drawn down to a about sixty feet from the entry. The deceased had gone down the entry after he and his partner had lunch, or about 11:55 a. m had been on the entry only about a minute when his brother and miners in No. 14 pillar heard him cry for help. They came assistance and found him lying on the track at No. 14 switch had apparently come in contact with the trolley wire, which is clow side of the entry. First-aid men were on hand in a few miners, although they worked on him for four hours. He lear widow and two children.

The only way such accidents can be guarded against or prevented where the voltage is over 250 volts is to guard the wires in such a way that it would not be possible to come in contact with the wires. Whether this can be done effectively under the present conditions in some of the mines of the state is a debatable question, but guards should be placed wherever possible. At the mines where 250 volts are used no accidents have occurred that resulted seriously. Under any circumstances all persons should exercise care when around the feed lines and trolley wires.

April 27 - Roslyn Fuel Company, Beekman No. 1, Beekman: Enoch Browitt, nationality English, aged 45 years, occupation fireboss. married. Killed by being struck by a loaded trip of mine cars. The deceased was fireboss on the midnight shift. On the morning of the accident at about 2:30 o'clock, the deceased and the night pumpman. who also acted as electric-hoist engineer, had occasion to put some cars in the third east parting. Just before the accident the deceased and the hoistman had arranged to drop the cars into the parting, after which the engineer was to go to the pumps and the deceased was to go about his other duties. The electric hoist is located just off the slope about 300 feet above the third east parting. When the cars were dropped into the parting they jumped the track and caught the deceased, killing him. The engineer, not knowing that the trip had left the track, went on with his other work, and at his regular quitting time, 4 a. m., he went home. The deceased was not found until the day shift came on at 8 a. m. He leaves a widow and five children.

The coroner's jury returned a verdict of accidental death.

Injured May 9, 1916; died May 13-Washington Union Coal Company, Tono mine, Tono: Antone Galkowiski, nationality Russian, aged 40 years, occupation miner, married. Sustained injuries from a fall of coal on May 9th and died at the Centralia Hospital on May 13th. On the morning of May 9th, the deceased and partner were working as miners on the entry stumps on the water level. They had fired a shot in the top coal at quitting time the evening before. On the morning of the accident the deceased worked off the loose coal while his partner loaded the car. When they had taken down what they thought was all the loose coal they both started to mine, one on each side of the pillar. While the deceased was mining a piece of top coal, which he was working under, it fell and caught him against the rib. His pelvis was fractured and he received other internal injuries from which he died on May 13th. An examination of the place after the accident showed that the top coal had come loose from a water slip above where the deceased was working. He leaves a widow and four children.

Accidents such as the above can be avoided only by a careful examination of the working place by the miners, and the propping up or taking down of all loose coal or rock.

Injured May 19; died May 22—Pacific Coast Coal Company, Bu mine, Burnett: James Goodrum, nationality English, aged 52 y occupation miner, single. Sustained injuries from a fall of roc May 19th and died in the Tacoma Hospital on May 22d. The deceand partner were working in No. 17 pillar on the block above counter gangway. The deceased was squaring up the face after a fired the night before. He cut through to a slip in the rock which it feather edge at lower end. Rock broke from slip, discharging propunder lower end and forcing him down the pitch, injuring internally.

This accident was in many ways similar to the accident woccurred at Tono the week previous.

May 27—Pacific Coast Coal Company, Burnett mine, Bur Erick Kintala, nationality Finn, aged 34 years, occupation married. Killed by flying rock from shot in rock tunnel used return airway from No. 3 to No. 4 seams. A round of shots had fired at 3:30 p. m. when the day men went off shift. The decand partner went on shift at 7 p. m. The fireboss made an exaction of the place at that time and he states that all shots had a ently been fired. Kintala was preparing to set up bar for drilling holes while rock was being loaded out. His nartner, who was a five feet from the deceased when the accident happened, in a ment said that the deceased was trimming the loose rock of the hand side of tunnel when the explosion occurred, which instabiled the deceased, and severely injured him. The deceased is a widow and three children.

After an examination of the tunnel and hearing the statem of the injured miner and others who were near at the time of accident, I do not think the accident was caused by a miss sho was probably caused by the deceased miner's pick coming in compatible with a stick of dynamite (60%) which had not exploded when shots went off and was in the loose rock when he was leveling to set up his bar. This accident can be classed as purely accident

June 24—Denny-Renton Clay and Coal Company, No. 2 Taylor: Jacob Ramshak, nationality Austrian, aged 43 years, pation miner, married. Killed by fall of coal in No. 5 west gang The deceased and his partner were working as miners on the way stumps on No. 5 seam. The deceased was standing on top partly loaded car starting an opening into the stump. The pitches about seventy degrees at this point in the gangway working off the coal which was above him, a large chunk, about feet square, broke from the face and fell on the deceased, crushis head and shoulders on top of the collar of the gangway set. skull was fractured, which must have caused instant death. leaves a widow and one child.

The prevention of such accidents as the above lies with miner himself, as only his carefulness can prevent them.

June 27 - Northwestern Improvement Company, mine No. 6, Dominic Trucano, nationality Italian, aged 61 years, occupation miner, married. Killed about 3:30 p. m., in room 111, seventh east entry. The deceased and his son, Joseph Trucano, were working in room 111. The miner working in No. 112 was driving a crosscut toward No. 111 room, and from the evidence given at the inquest and a statement by Joseph Trucano, it was agreed that when the shot was to be fired in the crosscut, a rap was to be given, which was the signal that the shot was to be lighted and no answer was expected. as the men in No. 111 would get clear. As soon as the men in No. 111 heard the rapping Joseph Trucano hastened down to the open crosscut to tell the man in No. 112 not to fire the crosscut shot, as they were not quite ready to fire. He was informed that the shot had already been lighted and was warned to get out of the place. The men in No. 111 thought they had plenty of time and prepared to light their shots. Just as Joe Trucano reached the face the shot went off, and blowing through the crosscut, struck the deceased, who was in the act of lighting a shot next to the 112 rib, causing his death and badly injuring his partner. The crosscut in No. 112 was in about eleven feet. The shot fired was drilled in about six feet. The pillar was about twenty feet through. The deceased leaves a widow and six children.

The jury at the inquest returned a verdict of "accidental death," and recommended that "hereafter anyone before firing shots in any crosscut, shall in person notify each other before lighting."

Such accidents are avoidable, and where men fire their own shots they should go in person and warn the men in the next place when about to fire in any crosscut and not light the shots until the men in the room are clear. Rapping should never be resorted to for the purpose of notifying when a shot is to be lighted. Similar accidents have happened where men fire their own shots contrary to instructions and they can be avoided either by the men themselves, careful shotlighters, or preferably by firing with battery.

July 7—Northwestern Improvement Company, mine No. 4, Roslyn: Tony Stanfel, nationality Austrian, aged 45 years, occupation assistant foreman, married. Killed by falling down shaft. No. 4 mine had been abandoned for some time and the shaft, which is 650 feet deep, is used for hoisting water, the water being kept at a level of 125 feet from the bottom. On the day of the accident, the deceased with two others were doing some repair work in the shaft and cleaning out some timber which was floating on top of the water. They had made several trips in the shaft, using a bucket attached to the cable for that purpose. They had finished their work and were coming up on the bucket and when about 100 feet from the top the deceased, who was standing on one side of the bucket with his arm around the hoisting rope, for some unknown reason lost his hold and fell down the shaft. The deceased was considered a very careful man

and had been employed at the shaft for many years when it was operating, and had been selected for this work for that reason. All concerned were at a loss to account for the accident, as the men on the bucket with the deceased at the time of the accident were sure nothing struck him. He leaves a widow and six children.

The coroner's jury returned a verdict of accidental death.

September 3-Durham Colliery Company, mine No. 1, Durham: Edward Truce, nationality Austrian, aged 31 years, occupation fireboss, married, and Fred Blacker, nationality American, aged 28 years, occupation electrician, married. Killed by an explosion of gas and dust. The deceased and Superintendent McDowell were in the mine at the time of the accident. They were installing an electric feed line to a point inside of the last chute, where an air compressor was to be installed to operate a mining machine. The narrow work in this mine generates considerable gas, and recommendations to eliminate the danger from this were submitted to the management by the Mine Inspector some time previous to the accident. The fan was shut down at 7 a.m. on September 3, thirty hours prior to the accident. At the time of the accident, those in the mine carried open lights. Truce and Blacker started to pull the wire to the face of the gangway, McDowell watching the reel about 500 feet from the face. When Truce and Blacker reached the inside chute, No. 17, they lighted the gas which extended from chute No. 17 to the face, about fifty feet causing an explosion which killed both. McDowell was able to reach the outside, being slightly injured by the force of the explosion The explosion caved the gangway for about 150 feet between who McDowell and the other two men were. The bodies of the decease were taken out through the counter about four hours after the accident. Both the deceased leave widows.

If ordinary caution had been used this accident would not have occurred. Those in charge on the day of the accident should no have gone into the mine without safety lamps, for it was almost certainty that gas would be found, especially inside of the last chutch

The Inspector recommended and insisted that the recommendations made previous to the accident be observed; also that the superintendent in charge be replaced by a more careful man, who would exercise more caution for the safety of himself and those under him.

September 12—Carbon Hill Coal Company, Electric Slope min Carbonado: Joe Testa, nationality Italian, aged 33 years, occupation miner, married. Killed by a fall of rock in No. 4 pillar of the water level. The deceased and his partner were taking a skip up No. pillar. They were preparing to put a stringer under a piece of be rock near the top of the pillar. Testa was digging a hitch in the total, which was to support one end of the stringer, when the lock rock fell, catching him under it, injuring him internally, from which injury he died two hours later. He leaves a widow and three children

Accidents such as the above can be avoided only by the carefulness of the miners themselves in timbering or taking down loose rock as soon as it is found. This accident was unfortunate, as the deceased and his partner were preparing to do this when the rock fell.

September 19—Pacific Coast Coal Company, Ford mine, New Castle: John Hendrickson, nationality Finn, aged 40 years, occupation miner, married. Killed when section of pillar caved in the pillar workings, west side Muldoon seam, Ford mine. The deceased and two others were taking out a small block of coal above the first crosscut, which would have finished this section of the pillar. An area of worked out ground was standing, which generally gives sufficient warning before it caves. Hendrickson's partners testified that the place seemed safe when, without warning, it caved, catching the deceased under the fall and killing him instantly. One of his partners had a narrow escape, losing his lamp and cap in getting out. The deceased leaves a widow and eight children.

The deceased was experienced on this work, as he had worked at these mines about eighteen years, most of the time on this kind of work. There was very little the Inspector could recommend after this accident, as the men working in such places should be better able to judge the condition of the place than any other person.

October 14—Northwestern Improvement Company, Cle Elum mine, Cle Elum: Tony Passen, nationality Italian, aged 20 years, occupation miner, single. Electrocuted by coming in contact with a live trolley wire on the sixth level of the slope workings of No. 2 mine. The deceased and his brother were working on the sixth level stumps. They loaded their own coal and delivered it to a parting near the outside of the mine. The deceased was preparing to take a loaded trip to the parting. In passing the trip he had to go under the trolley wire, which carried 500 volts, direct current. His brother heard him shout and on coming out to where he was, found him lying unconscious near the motor. This accident happened on the night shift and before help arrived, the deceased died.

The only way such accidents can be guarded against is by guarding the trolley wires so it will be impossible for anyone to come in contact with them. In this case the entry was on the retreat and the height of the entry would not permit wires being guarded. Some system will have to be adopted in this field to eliminate such accidents and the inspection department would welcome suggestions from the mine officials in the Roslyn-Cle Elum field in regard to this matter.

Injured October 13; died October 24—Pacific Coast Coal Company, Burnett mine, Burnett: Steve Janich, nationality Austrian, aged 30 years, occupation miner, single. Sustained injuries while working in the main rock tunnel going west from No. 2 seam, east dip, third level, from a fall of rock, and died in the insane asylum at Stellacoom about 4:00 a. m., October 24. The deceased was taking

down a loose rock, near face of rock tunnel, when it came down. Another piece of rock also broke loose and coming down struck him on the back of the head, shoulders, back and ankle. He was cut on the back of the head, and shoulders, back and ankle badly bruised. He was taken to the Tacoma General Hospital in the evening of the same day he received the injuries. At the hospital he became delirious and on October 18th he was taken to the insane asylum at Steilacoom, where he died.

The following is taken from a report sent to the operating company at Burnett from Steilacoom:

"Our diagnosis in this case was manic depression, insanity of the manic type, with death from exhaustion.

"Our history of this case is very incomplete, as we know very little about him prior to the time that he received his accident. It is stated that at the time he received the injury to his leg, he also injured his head, but we did not determine any evidence of that while here.

"There may be some question of the diagnosis in this case, as it is very possible that he was suffering from an acute traumatic delirium, and we would not care to express an opinion without having further knowledge of the case."

November 13—Wilkeson Coal and Coke Company, Wilkeson mine, Wilkeson: James Marsden, nationality American, aged 17 years, occupation outside laborer, single. Suffocated by the fine coal when he fell in the washed coal bin at the coke oven plant. The coal in this bin was very fine and it was the duty of the deceased to start it while the larry car was being loaded from the bin through the chute underneath. The deceased went on duty at 6:30 a.m., and was not seen again until about 7:15 a.m., when the men loading the larry car discovered his body as it came through the chute the coal. In starting the coal, in some way not known he fell in the hole made by the fine coal being loaded out and was buried und the coal which rushed down on him.

After an investigation of this accident, the Inspector recommende that the person starting the coal in the bin should have a rope tie around his body so that when the coal is started, if carried with i he would have some chance to save himself.

December 6—Carbon Hill Coal Company, Miller mine, Carbonado Alexander Kissel, nationality Russian, aged 22 years, occupation miner, single. Killed by being struck by flying rock from shots fire at the face of the water level rock tunnel of the Miller mine. The deceased and his partner, Rees Jenkins, were driving the rock tunner. This tunnel is in the footwall and runs about parallel to the striff of the seam and is connected to the longwall face by means of crocuts driven in the rock. After examining the face of the tunnel after a statement made by Jenkins, who was slightly injured, the deceased was killed when a round of shots was fired in the face.

Jenkins and the deceased had loaded and tamped nine holes, after which it was agreed that Jenkins would take the extra powder back to the switch, fix his carbide lamp, and then come in and help light the shots. When Jenkins left the face the deceased had but two of the boards to put down to shovel the rock from later. When finished with this work he was to wait until Jenkins returned. It was about 350 feet back to the switch and Jenkins had gone to the switch and was returning to the face, and when about thirty-six feet from same a shot went off. He happened to be standing along side of a car. A piece of rock struck him, knocking him down, after which he crawled into a blind crosscut nearby. He heard some other shots go off and some time after went outside and reported to the foreman. On investigation the deceased was found dead about ten feet from the face. The nine holes had all gone off. They were made by jackhammer drill, were short and loaded with six and seven sticks of powder. The fuses were short. It appears that the deceased decided to light the fuses himself and before he could get away the shots went off, killing him.

This accident could have been avoided if the holes had been fired by the two men as planned or if longer fuses had been used.

Injured and died December 12-Wilkeson Coal and Coke Company, South 3 mine, Wilkeson: Charles Scrapini, nationality Italian, aged 37 years, occupation miner, married. Sustained injuries by being struck by a niggerhead. The deceased was fatally injured about 9:30 a. m. on December 12, and was taken to the St. Joseph's Hospital in Tacoma, where he died late in the afternoon. The deceased and his partner, Carl Sanden, were working as miners on the pillar between chutes 7 and 8 on the north side. They were taking an angle from a point about eighteen feet from the gangway on the inside rib of chute 7. Being so near the gangway everything was in good shape. The battery of cogs was in above the first counter at which point the place was twenty-two feet wide. The seam does not pitch very heavy at this point, but to make it easier to cross from the counter across the place to the angle, a prop was set in the chute just below the cogs and in line with the counter. A few laggings were placed above the prop. The day before a large niggerhead was encountered on the angle and was broken by a shot. The piece broken off was rolled on the lagging above the prop in order to keep it out of the chute. The deceased was standing on this niggerhead watching his partner, who was just below him about six feet, making the coal run down the angle, when the prop came out. The deceased slid down ahead of the niggerhead, which pushed his head against the angle when he reached the narrow part of the chute, fatally injuring him. He leaves a widow and five children.

# FATAL CABUALTIES, 1916.

Ohlibra Dependents Oxuse of Death dren	1 Fell on a pick.*	2 Explosion of powder. 1 Figure con from abota. Struck by runaway trip. 2 8 Electrocuted by live	Crousey wite.   Crousey wite.	6 7 Real down shaft.   Explosion of gas and dust.   Explosion of gas and dust.	3 4 Fall of rock. 8 7 Caught by cavein. First controlled by live	F 62 F 62	25
-PIW OWB	г					1	2
Single		-	F		H		•
Mar- ried	-			HH H		F	121
Residence	Renton	Mendota Ronald New Castle Ronald	Ronald Tono. Burnett Burnett Taylor.	Roslyn Durham	Carbonado New Castle	Burnett. Wilkeson Carbonado	
Occupation	Timberman	Mine foreman Miner Inside laborer Miner	Fyreboss Miner Miner Miner Miner	Asst. foreman Fireboss	Miner	Miner. Outside labore: Miner.	Totals
Age	4	<b>3622</b>	<b>*38%</b>	3 to 8	858	ន្តដន្ត	
Nationality	American	American English Greek	English Russian English Finn Austrian Italian	Austrian Austrian	Italian Fynn Italian	Austrian American Russian	
NAME	P. J. Connell *	J. G. McMullen Elijah Cox Andrew Lucis Joe Bertino	Enoch Browitt  A. Galkowiski ** J. Goodrum † Erick Kintala Jacob Ramshak  Dom. Trucano	Tony Stanfel Edw. Truce Fred Blacker	Joe Testa Jno. Hendrickson Tony Passen	S. Janich †† J. Maraden § Alex. Kissell Ohas. Serapini	Totals
Date	1915 Dec. 20	Jan. 17 Jan. 19 Mar. 17 Apr. 18	Apr. 27 May 9 May 19 May 27 June 24 June 27	July 7 Sept. 3 Sept. 3	Sept. 12 Sept. 19 Oct. 14	Oct. 13 Nov. 13 Dec. 5 Dec. 12	

* Died January 13. ** Died May 13. † Died May 22. †† Died October 24. § Killed outside of mine. † One killed outside of mine.

RECAPITULATION OF FATAL CASUALTIES, 1916.

Residence	No.	Occupation	No.	Nationality	No.	Cause of Death	No.	Name of Mine	No.
Burnett Grie Eine Oar bonado Oar bonado Durham Mendar New Caule Rearion Roalyor Taylor Tono Wilkeson	810010100110	Burnett. 3 Aeststant foreman 1 American 4 Oar Dound 2 Flectridan. 1 Austrian 4 Oar Dound 2 Flectridan. 2 English 3 Durham 2 Laborer inside. 1 Finn 2 Bendota 2 Mine foreman 1 Italian 5 Roarton 3 Timberman 1 Russian 2 Rosiyn 2 Timberman 1 Russian 2 Rosiyn 2 Timberman 1 Russian 2 Rosiyn 2 Timberman 1 Russian 2 Rosiyn 2 Timberman 1 Russian 2 Rosiyn 2 Timberman 1 Russian 2 Rosiyn 2 Timberman 1 Russian 2 Rosiyn 2 Timberman 1 Russian 2 Rosiyn 3 Timberman 1 Russian 2 Rosiyn 2 Timberman 1 Russian 2 Rosiyn 3 Timberman 1 Russian 2 Rosiyn 3 Timberman 1 Russian 2 Rosiyn 3 Timberman 1 Russian 2 Rosiyn 3 Timberman 1 Russian 2 Rosiyn 3 Timberman 1 Russian 2 Rosiyn 3 Timberman 1 Russian 3 Rosiyn 3 Timberman 1 Russian 3 Rosiyn 3 Timberman 1 Russian 3 Rosiyn 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 3 Timberman 4 Timberman 4 Timberman 4 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman 5 Timberman	наманаюн	American 4  Austrian 4  English 2  Gren 1  Gren 1  Italian 5  Russian 2	440040	Caught by cavein  Electrocuted, trolley  Wife  Explosion of gas and dust  Explosion of powder.  Fall of coal.  Fell down shaft  Fell down shaft  Fell down shaft  Fell of rock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of prock  Fell of pr	- 00 000000000000000000000000000000000	Carbon Hill Coal Co., Electric Slope. Carbon Hill Coal Co., Miller. Denty-Renton Clay & Coal Co., Tay. Jor No. 2. Durham Colliery Go., No. 1. Mendota Coal & Coe, No. 3. Northwestern Imp. Co., No. 3. Northwestern Imp. Co., No. 4. Northwestern Imp. Co., No. 6. Northwestern Imp. Co., No. 6. Northwestern Imp. Co., No. 6. Northwestern Imp. Co., No. 6. Pacific Coast Coal Co., New Castle. Pacific Coast Coal Co., New Castle. Pacific Coast Coal Co., New Castle. Pacific Coast Coal Co., New Castle. Pacific Coast Coal Co., New Castle. Pacific Coast Coal Co., New Castle. Wash, Thion Coal Co., Reakman No. 1. Wash, Union Coal & Coke Co., Tono Mine. Wilkeson Coal & Coke Co., Tono Mine.	
Totals †	ផ		ដ		2		ជ	Totals† 21 21 21 21 21 21 21 21 21 21 21 21 21	ដ

* Killed on surface. † One killed on surface and twenty underground.

FATAL ACCIDENTS FOR TWELVE YEARS BY LEADING CAUSES.

. 6							
1906-1916	64	8 2 2 6	15		85.50	228 108 108,4	5,556
1910	61	64 64 ⁻¹ 10	4 1	61		3,5 <b>6</b> 6	4,746
1915	1	8 8 9	1	61 -	П	8,688,8	11.40
1914			-	61	<b>∞</b> ⊢ ,	16 17 17 1883	8.65
1918		-4-6-		II.	ee.	81 81E,	6,065
1912		ω 4	es	9		14,362	6,673
1911		61 00	- 8	10		-នា ខន្	5,780
1910	1	18898	L 81	8	-	- 5 \$8,	6,121
1906		13 13	F 83	61 F1 61	91 91	2 8 8 4, 2 8 64,	7.01
1908	-	1 12	-	10-01		-2 85'	5,341
1907	1	. 87 1	1	10	• (	38,4	6,118
1906	-	t-	-	8 11		-ដ <b>ង</b> &	5,227
1906			H	65		13 13 4,080	8.19
CAUSE	Cave in pillars, including ma- terial sliding down	Drowned by underground body of water, cavein of gravel Flectrocuted Explosion of gas or dust. Explosion of powder or caps Falls of rock and coal.	Flying pieces from blasts, including missed shots	coal Overcome by afterdamp, black damp, or firedamp Run over or crushed by cars, lo- conotives and runaway trips Struck by falling timber		Outside accidents Inside accidents Total inside and outside accidents Acnts Number of inside employee	Number of inside and outside employee  Men inside killed per 1,000 employed

Table Showing Days Operated; Tonnage Mined; Number of Employes; Number of Men Injured;* Time Lost by Men turned to Work, and Number of Injured Returned to Work, at Each Mine, 1916.

ANIN SO ANYN	Aver- age	Short	Numb	Number of Employes	ployes	Nu	Number of Men Injured	Men	Time I	Time Lost (Days) of Men Returned to Work	ys) of	Numl	Number of Injured Returned to Work	ork
NAME OF MINE	Oper-	Mine Per Year	Inside	Inside Outside	Total	Inside	Inside Outside	Total	Inside	Inside Outside Total	Total	Inside	Inside Outside	Total
KING COUNTY— Bayne (Carbon and Daly)	306	58.671	8	19	81	24	+	86	3883	748	458	30	87	83
Rinck River (a)	-	710100	-			6		30	78	DE .	24	6	,	3 0.
Denny-Renton, Renton	287	7.480	10	1	11							,		١.
_	282	39,888	8	1.5	75	13	-	14	740	78	818	00	1	8
Grand Ridge	134	24,097	9	19	62	11	1	15	1313		1813	*		*
Hyde	117	16,596	37	19	98	00	1	6	2443	31	2754	1	1	œ
Issaquah	101	42,511	101	32	130	12	01	14	2074	12	2194	00	1	<b>6</b>
National (1 and 3) (b)	202	14,800	19	19	88	*	61	9	141	241	385	*	61	•
Ozark Coal Company (Navy)	100	5,838	20	10	30						*******			
Coast Coal Company.	221	206,975	324	102	456	88	00	16	1,008	20	1.098	99	00	88
Pacific Coast Coal Company, No. 14	6	3,148	151	47	198					-				
Coast Coal Company.	239	301,563	302	149	354	88	12	48	360	189	549	58	11	\$
Pocahontas	183	11,623	27	17	88	00	65	11	236		249	10	1	•
Renton, P. S. T., L. & P. Co	255	135,208	185	89	530	22	10	11	1,2143	533	1,268	22	+	23
Teig-Tennant Company (a)					-	1	*******	1	23	,	55	1		-
	172	20,882	36	0	31	4	1	20	51	0	8	*	1	ιĠ
The County	195	889,275	1,263	505	1,765	288	35	318	4,842%	717	5,5301	212	88	240
TTITAS COUNTY-														
Imp. Co.,	251	241,611	206	23	232	46	1	28	1,007	28	1,063	48	1	\$
imp.		**********				- 1		-		i				
Imp. Co.		243,507	200	3	3	88	. 60	28 8	3,001	20	3,12		2	8 8
Timp. Co.,	287	108,081	88	93	200	200	- 0	81	02/8		OSS S	81		Z I
TIME.		190,141	8	42	212	2	0 1	21	1,4416	18	1,0224		0	= 1
98	200	130,308	121	77	148	20	0 9	10	Seod	200	100		0	8 9
4						•	•	00			1019		•	۰ م
Boelyn Cascade Coal Co. No. 9									100		TO S	- 0		<b>⊸</b> 6
Dellar Cascade Com Co., 170, 5						•			010			•		•

* Includes all non-fatal accidents by which the time loss was for periods of 24 days or more, as reported to the Industrial Insurance Commission and this department, and for which compensation was awarded for time loss. Does not include accidents happening to office workers. Includes accidents happening to coke oven workers. † Found by dividing the sum of the products of the total number of men employed and days worked at each mine by the total number of men employed. (a) Under development. (b) Formerly the Sunset Mine. (c) Mine not given, and not assignable to any one mine.

Ş	Aver-	Short	Numb	Number of Employes	ployes	Ä	Number of Men Injured	Men	Time Men Re	Time Lost (Days) of Men Returned to Work	ys) of	Numl Retu	Number of Injured Returned to Work	jured Work
NAME OF MINE	oper-	Mine Per Year	Inside	Outside	Total	Inside	Outside	Total	Inside	Outside	Total	Inside	Outside	Total
KITTITAS COUNTY (Continued)— Roslyn Coal & Coke Co., Plant Roslyn Puel Co., No. 1. Roslyn Fuel Co., No. 2. Roslyn Fuel Co., Summit Independent T. B. Wright & Sons, No. 1.	2222588	27,178 116,224 116,724 116,727 172,7	74858°°	155	26 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1887 - 0	1	19gr-	ऋ <b>ङ्के</b> श्रिश्च	10 18	25 5 8 8 <u>8</u>	17 17 15 5	1	1855 4 :
The County	757	1,316,998	1,811	202	1,513	988	8	88	8,064	583	8,5734	8	8	340
LEWIS COUNTY— Centralla Coal Mining Co., Empress Ford's Fairle Free Branche Coal Co.	888	10,207	72 52	**	18	8411		97.1	\$11 91		118	67		1 2
	888	1 - 5 - E 8 8	4 10 x	~ 0	~ Z «	66	H	~ 8	119	8	512	20	-	112
Salzar Valley Sheldons Superior, No. 2	12 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 13 1	14,877	. e 2 2	61004	795	<b>60 64</b>	H	₩ 61	41 <u>4</u> 16	€	35	<b>80</b> FI	H	
The County	181	100,121	118	8	167	83	64	2	4634	8	\$	10	8	2
PIEROE COUNTY— Burnett Carbonado curalda (A)	288	86,882	18	8	302	₹.	-8	8	85	= 5	1,002	\$.	7 8	28
Carbonado, Wingate Carbonado, Douty (2 and 3). Carbonado, No. 6.	283					°8:22°	77	8877	2 8 8 9 E	8	964 165	°8:58∝	3	88128

Table Showing Days Operated; Tonnage Mined; Number of Employes; Number of Men injured; Time Lost by Men Re-Showing 22/2, and Number of Injured Returned to Work, at Each Mine, 1916.—Concluded.

turned to work										10				
	Aver		Numb	Number of Employes	ployes	Nu	Number of Men Injured	Men	Time I Men Be	Time Lost (Days) of Men Beturned to Work	ys) of o Work		Number of Injured Returned to Work	ured
NAME OF BINE	e con	Mine Per Year	Inside	Inside Outside Total Inside Outside	Total	Inside	Outside	Total	Inside	Inside Outside Total	Total	Inside	Inside Outside	Total
PIEROE COUNTY (Continued)— Carbonado, Carbon (Old No. 9) Carbonado, Miller	88					81 71		82.2	150 ES		255	1		22
Oarbonado, Electric Slope. Oarbonado, all mines. Fairfax		249,124	88 88	25 83	<b>8</b> 2	<b>•</b> 85 <b>→</b>	<b>82 00</b>	e 88 r	8. 15.88	200	8.6.2 3.00 3.00	~ 8 →	<b>83</b> eo	115
Gale Creek Marcy (Montesuma) South Willie, Champion	8 8 8 8	86,44.8 101,218	2523	2827	8838	5-0g		∞ ω ω <b>σ</b>	<b>2</b> = 2 <b>2</b>	2 12	# B 12 # B			<u>%</u> •• •• §
Wilkeson, outside (c) Wilkeson, South 1.			' ! !			2 20 7	122	120	6.5	8	825	i	- 82	<b>2</b> 2 3 4 6
Wilkeson, South 8.	88	108,367	110	æ	88	.ឌន	15	, 22 <del>,</del> 5	. 3 <u>\$</u>	8	35	* # <b>%</b>	18	* <b>55</b> 55
The County	156 +	583,162	<b>8</b> 6	88	1,179	83	28	282	4,407	8	5,496	138	97	245
THURSTON COUNTY— Tono No. 1, Tono	85	166,068	88	*	88	15	10	8	8	19	853	7	10	9
The County	198	165,066	88	88	128	18	20	8	83	5	83	7.	10	91
WHATCOM COUNTY— Blue Canyon	88	5,988	. 21	2	Ξ									
The Oounty	+ 280	5,983	12	€1	=									
The State	<b>4 218</b>	3,019,600	3,596	1,150	4,746	716	118	1,086	17,996	2,279	20,274	E	ā	87.4
4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	• • • • •		•							:			,	

* Includes all non-fatal accidents by which the time loss was for periods of 2½ days or more, as reported to the Industrial Insurance Commission and this Gapatiment, and for which compessation was awarded for time loss. Does not include accidents happening to office workers. Includes accidents happening to coke over workers. Fround by dividing the sum of the products of the total number of men employed and days worked at each mine by the total number of men employed. (c) Mine not given, and not assignable to any one mine.

Table Showing Number of Injured Not Returned to Work;* Number of Tons Mined Per Man Injured; Average Time Lost Per Man Returned to Work, and Number of Employes to Each Man Injured, at Each Mine, 1916.	eturned od Nur	nber o	Work;*	Numb	o Each	rk;* Number of Tons Mined Per Employes to Each Man Injured, at	od Per	Man Each	Injure Mine,	d; Av 1916.	erage	Time
ANIA BO BAYN	Numb Not Ret	Number of Injured Not Returned to Work*	ured Work*	Numb Pe	Number of Tons Mined Per Man Injured	Mined	Average Man Re	Average Time Lost Per Man Returned to Work	ost Per	Numb to Eac	Number of Employes to Each Man Injured	ployes
NAME OF BINE	Inside	Inside Outside Total	Total	Inside	Outside	Total	Inside	Inside Outside	Inside and Outside	Inside	Inside Outside	Inside and Outside
KING COUNTY— Bayne (Carbon and Daly). Black River (a)	4	1	ū	2,444.0	14,667.7	2,006.3	19.18	28.83	25.55 26.55	89	4.8	8.9
Denny-Renton, Renton Durham (Nos. 1 and 2). Grand Ridos	101		100	3,068.3	39,888.0	2,849.1	26	· · · · · · · · · · · · · · · · · · ·	8.	80	15.0	e3
Hyde Hyde Essquah Neston (1923)			0 10	2,074.5 3,542.5	16,396.0 21,255.5	2,008.1 1,844.0 8,086.5	8 <b>2</b> 8 9 <b>2</b> 8	31.00	8 8 8 8 8 8	ro 4.00 ro 6.00	0.00	က လ ထ စ မ မ မ
Ozark Coal Company (Navy) Parish Coast Coal Company, No. 11	ន		83	3,700.0	7,400.0	2,468.7	85 82 83 83	120.30	15.11	4 % F	5.0	6.8
Facilic Coast Conjugaly, No. 14 Facilic Coast Coal Company, Ford Pocahontas	r-00	- 64	00 LG	8,376.7	25,130.2 8.874.3	6,282.5	12.41	17.18	13. 73 55. 73	7.6	16.4	\$- 80 \$- 80
Renton, P. S. T., L. & P. Co. Teig-Tennant Company (a) Taylor (1 and 2).	17 1		82	1,877.8	27,040.6	1,755.8	885 788	18.87	22 38 38	64 60 70 70	9. 0.	60 84 60 80
The County	E	7	82	8,142.8	25,407.8	2,798.4	28.33	25.61	28.16	4.5	14.8	0.0
KITTITAS COUNTY— Northwestern Improvement Company, No. 6 Northwestern Improvement Company, No. 8 (a)	~-			4,980.8	0.119,112	4,882.2	28.97	86.98	24.78		27.0	4.7
Improvement Company, Improvement Company, Improvement Company,	64 C 64		6160	2,586.5 4,959.7 2,567.6	121,758.5 158,681.0 0-7-0	2,484.7	82 c 3 s s	8.e.t	388 281	61 RD 6	25.0	6,100
nprovement Company, Cle F. nprovement Company, outsic Coal Company, No. 1	•		<b>.</b>	2,631.0	27,308.6	2,634.0 27,508.6 2,402.9	18	<u> </u>	86.67 75.99	601	101	- 60
	•	:	-	••••••	***************************************		20.20		20.02			

Table Showing Number of Injured Not Returned to Work;* Number of Tons Mined Per Man Injured; Average Time Lost Per Man Returned to Work, and Number of Employes to Each Man Injured, at Each Mine, 1916.—Continued.

ANTH BY ANTH	Not Re	Number of Injured Not Returned to Work'	jured Work	Numb	Number of Tons Mined Per Man Injured	Mined	Average Man Re	Average Time Lost Per Man Returned to Work	ost Per	Numb to Eac	Number of Employes to Each Man Injured	ployes
NAME: OF MINE	Inside	Inside Outside Total	Total	Inside	Outside	Total	Inside	Inside Outside	Inside and Outside	Inside	Inside Outside	Inside and Outside
KITTITIAS (COUNTY (Continued)— Rosiyn Cascade Coal Company, all mines Besiyn Case & Coke (Company, Plant Rosiyn Fuel Company, No. 1 Rosiyn Fuel Company, No. 2 Rosiyn Fuel Company, Summit Independent T. B. Wright & Sons, No. 1	01		61 -1-0100	11,169.5 7,173.0 6,778.2 5,296.5 2,969.7 1,211.8	122,008.0	11, 169.5 7, 173.0 6, 421.4 5, 296.5 2, 960.7 1, 088.7	11.75 55.00 57.28 17.98 16.40	10.00	17.88.25 17.88.29 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88	81.00 8.00 8.00 8.00 8.00 8.00 8.00	19.0	20.00 5.00 5.00 1.1.1 1.1.1
The County	88		83	3,598.8	65,849.6	8,411.8	24.41	28.91	24.56	3.6	10.1	3.9
LEWIS COUNTY Centralis Coal Mining Company, Empress Pord's Prairle Free Burning Coal Company				4,312.5		4,812.5	36.50 16.00		16.00	7.0		0.0
Ladd, No. 3.  Leadota, No. 1.  Monarch, No. 1.			67	2,260.5	50,986.0	2,980.5 3,921.9	82.E 82.50	8.	11.27 11.27	9.4 9.9	9.0	e 4 0 0
Saizer Valley Sheldons Superior, No. 2.	-	1	-	4,792.8	14,877.0	3,504.2 5,876.5	13.88	9.50	12.00	4.00 00 10	8.0	4.0 7.2
The County	∞		99	4,980.0	64,560.5	4,546.7	22.39	6.23	20.76	5.4	14.5	9.1
PIERCE COUNTY—  Unract Carbonado, outside (c) Carbonado, Wingate Carbonado, Douty (2 and 3) Carbonado, No. 5. Carbonado, No. 5.	¥ 610001	o: → ←	<u>F</u> → ∞ ∞ 61	1,774.5	18,688.8 1,570.8	1,570.8	25.00 25.88 26.00 26.88 26.00 36.00	27.75 22.11	20.28 25.28 25.28 25.28 26.28	2.9	7.1 8.4	<b>8</b>
• Includes accidents in course of assembly or claims for time lost held under advisement, and no time loss given. (c) Mine not given, and not assignable to any one mine.	ims for ne mine	time los	at held 1	under ad	/sement,	ind no tin	e loss	given.				

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Number of Injured Not Returned to Work;* Number of Tons Mined Per Man Injured; Average Time	han Returned to Work, and Number of Employes to Each Man Injured, at Each Mine, 1916.—Concluded.	
Man	Each	
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Mined Pe	Injured,	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
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Number of Ir	Aan Returned	
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Table Show	_	

Lost Per Man Returned to Work, and Number of Employes to Each Man Injured, at Each Mine, 1916.—Concluded.	N Nur	uper o	f Em	ployes t	o Each	and Number of Employes to Each Man Injured, at Each Mine, 1916.—Concluded	red, at	E B Ch	Mine,	1916	-Concl	nded.
ANTH BO BNYN	Not Ret	Number of Injured Not Returned to Work*	ured Work.	Numb	Number of Tons Mined Per Man Injured	Mined	Average Man Rei	Average Time Lost Per Man Returned to Work	ost Per Work	Numbe to Eac	Number of Employes to Each Man Injured	ployes
NAME OF MINE	Inside	Inside Outside Total	Total	Insíde	Outside	Total	Inside	Inside Outside	Inside and Outside	Inside	Inside Outside	Inside and Outside
PIEROE COUNTY (Continued)— Oarbonado, Oarbon (Oid No. 9) Carbonado, Miller	<b>80</b> 64		•> 0				15.08					
Electri all mi	_	ī	18	2,872.6	8,897.8	1,873.1	8.8	22.11		61		80
				1,888.4	22,018.0 4,212.0	2,301.1 1,778.7 2,106.0	484 888	11.89.17	25 25 25 25 26 25 35	8.8 8.8 0.8	85.0 85.0	36.0 36.0
South Willis, Champion Spiketon, No. 10. Willbeam outside (c)		•		2,062.0	28,417.0	2,062.0	7.50 15.02	8.5	5,7,5 8,2,2	0.03 20.03	14.0	14.5 2.9
Wilkeson, South 1. Wilkeson, South 2.			1				19.75	1	19.75			
	<b>60 IO</b>	61	o ⊱-	8,445.2	6,890.4	2,296.8	19.33 18.78	18.30	18.82	7.00		<b>1</b>
The County	웛	10	27	2,808.1	9,520.7	1,867.7	22.45	20.84	22.15	8.5	8.6	13
THURSTON COUNTY— TODO No. 1, TODO	1		1	11,004.4	88,018.2	8,258.8	16.28	10.20	14.88	9.0	7.0	7.9
The County	-		-	11,004.4	88,018.2	8,258.8	16.28	10.20	14.08	9.0	7.0	6.4
WHATOOM COUNTY— Blue Canyon												
The County												:
The State	144	17	161	8,292.9	25,589.8	2,917.5	28.27	22.67	28.19	8.9	9.7	4.6





Cleaning Plant, Carbon Hill Coal Company, Carbonado, Wash



Cleaning Plant. Pacific Coast Coal Co., Burnett, Wash.

RECAPITULATION OF NON-FATAL ACCIDENTS, CAUSE OF INJURY, NATURE OF INJURY, PERCENTAGE OF INJURIES, AND TIME LOST, 1916.

	Z	NUMBER INJURED	INJOE	TED CEN	Time Lost	Lost	į				Z	UMBER	NUMBER INJURED	ED	Thu	Ume Lost	
CAUSE OF INJURY	뒥	ort.	Total	Re- turned	Men Re to W	Returned Work	centage of In-	NAT	ore of	NATURE OF INJURY	ήş	Oct	Total	Re- turned	Men F	Men Returned to Work	osntage of In-
	3	3		Work	Total	Average					8			Work	Total	Average	
Axe	Ħ		22	8	1007	14.50	8.67	Ankle	broken		**		60	•0	315	105.00	8
Bar	:	•	•	•	8	18.76	8.0	Ankle			*		*	4	72	18.00	8.0
Bump in mine		:	<b>-</b> 0	10 0	<b>8</b> 7	8 5	8 9	Apkle	bruised		<u>.</u>	ø -	<b>31 °</b>	<b>53°</b>	379	18.04	25 21.8
Obute about and cars	9 60		1 <b>©</b>	•	188	88	98	Ankle				-	۰.	•	6	10.00	0.10
Coal			15	2	99	10.00	1.16	Ankle		-	۰.	~	2	2	121	_	1.16
Coal coming down chute.		_	22	2	8	12.46	8.38	Arm	broken		ص ص		10	•	469	117.25	0.48
Coke	:	٦,		-	2	19.00	0.10		bruised		2	:	앩.	=	1439		1.18
Door tell		٦.	•	•	-		9.5		Dentined .		, ,	<u>:</u>	٦,			:	2:
Engine, noisting		<b>-</b>	» 8	× 3	ž	8 9	9.5		ampurated		- <b>4</b>	-	t	t	130		200
Explosion of gomeler		:	3 -	\$-	2 2	3 2	2 2		. namin		• <b>-</b>	•			300		85
Fall of coal			٦	122	1,800	88	6	٠	bruised		· 8	•	12	8	800		2 2
Fall of rock	35		25	3	4	25.52	17.78	Back	Injured		=	-	2	2	3489	28	119
Fell down chute		-	<b>œ</b>	7	88	28.14	0.77	Back	strained		\$	•	3	55	457		4.14
Fell	8	14	\$	28	1,156	88.10	86. 86.	Back	wrenched	-	2	:	2	80	118		0.97
Flying coal	88	:	88	28	1,066	16.61	23.	Body	bruised	:::::::::::::::::::::::::::::::::::::::	61	<b>6</b> 4	ដ	81	356		20.02
Flying object	64	•	\$	•	威	18.50	93.0	Body	parined		:	-	-	-	33		9.19
Hammer	01	•	₩ .	•	116	19.10	98	Body	injured		•	:	•	<b>6</b> 4	308		8.
Horses, runsway	:	o4 ,	93 (	<b>91</b> C	E E	25.75	0.19	5 5	bruised		69	:	۰ ده	<b>64</b> ,	0		0.19
Tittie	- 8	- ×	• ;	8°	14.7	88			out		-	-	٦,	-	20		9:5
LAILING	8 <	•	٠,	3 3	=	3.5	38		Panile of		- 0	:	۰.	٠		9	200
Machiners	•		<b>.</b>	* 6	358	3.5	9 8	3	Collerbone by	hroken	- 1-	:	۹,-	٦,	22	38	2.5
Man car fell off	۰	•	- 6	- 0	<b>1</b> =	3 5	9 0	Na Tan	ent contract of the		-		•-	4	8	80.20	25
Mine cable	:	64	94	,			0.19	Ear	nured		•		•	61	591		0.20
Mine cars	88	71	8	룡	1,985	2.2	2.0	Elbow	bruised		61		61	-	2	10.00	0.19
Mine car and roof		:	-	9	186	8.73	89.0	Elbow	Infected		_	:	-	:	:		9.19
Mine car and timber		:	2	2	3	ឆ. ឆ	<b>88</b>	Elbow	cat .:		:	-	-	-	=	8.	0.10

^{*} Includes all non-fatal accidents by which the time loss was for periods of 2% days and more. Does not include accidents happening to office workers.

Includes accidents happening to coke oven workers.

	×	NUMBER INJURED	INJUR	ED	Time Lost	Lost	å			×.	NUMBER INJURED	INJUH	ED	Time	Time Lost	å
CAUSE OF INJURY	Ė	Oat-	Total	Re- turned	Men Return to Work	Men Returned to Work	centage of In-	NATURE OF	OF INJURY	Ė	ogt:	Total	Re- turned	Men R	Men Returned to Work	centage of In-
	Bide	813e		Work	Total	Average	Sound			sige	810e		Work	Total	Average	
Mining machine	t-		-	•	8	9		Filhow dislocated	peated		-	_	-	2		
Motor	- 00	-	- 🕶	•	3	24.87	8	Eye bruised	T	7	1	1,7	123	18	16.25	.83
Motor and car	-	:	7	-	•	8.8		•		•	:	••	80	8		
Mine pump	٦,	:,	0		3	9.5		Eye injured	~ ·	<b>88</b> °	ø,	88 6	F.	1,150		
Mule, Kicken by	`=	- 6	D 25	- =	30	5 S		Face Drumed		N 60	٦-	۰,	0 4	3 8		
Pick	12		9	7	2213	15.82		Face cut .		,	-	٠,-	-	ro		
Piece of sheet fron	9	-	•	9	Ŀ	21 21		Ē	<b>E</b>	*1		61	61	8		_
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Pushing car	<u>*</u>	:	<u>.</u>	엄	<b>8</b>	19.08			us	<u>-</u>	:	(	1	88		
Pallroad car	n		- -	H 0	8 9	3.8		Foot fuforted		* -	19	۰-	0 -	28		
Rail fell	26		r •c	9 10	€ 8	13.90		_		- oc	6	- 6	٠.	35		_
Bock	1,	60	17	7.	8	19		_	nunctured	•		4	• • • •	88		
Rolling coal	•	:	9	10	2	16.50			ned	10		10	*	28		
Room rope, wire from	19	:	19	16	6	25.36			hed	<b>+</b>	61	8	•	188		
Saw	*	61	9	ю	8	16.00			bruised	8	<b>-</b>	3	ដ	8		_
Slipped and fell	8	7	<b>\$</b>	8	200	19.45		Finger broken	ken	<b>+</b>	-	כע	20	191		_
Sliver of timber	<b>x</b> 0 (		<b>3</b>	- 1	2	8 3	_	Finger cut		- 73	i~ .	<b>3</b> 8	88	417		_
Sprag and car		- -	<b>D</b>		£	3 5	_		Intected	2.	- 6	3 :	20	22.5		
Sprag and prop		•	и е	٦,	23 23	3.5	3 5		maghed	- <u>-</u>	, c	27 8	P 8			
Struck by shot		4	4 K		8 8	3 6		Minger and	mit off		<b>&gt;</b> &	3 4	3 <	950		_
Struck by timber	Š	LC;	8	- 83	8	\$5.10		_	2		- 61	8	2	18		_
Timber fell		•	8	8	186	15.36	_	_	ed	-		-	-	-		
Timber coming down	•	_	•	•	1					83	<b>60</b> (	2	3	20		
chute	•	:•	4 6	90 0	18	16.25	9.5	Hand infected	rted		- P	g «	9 8	25.5		
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TOOM TOOM	- 0	•	9 00	•	•	25	28	Mand minuting	HIRMING	64	:	61	01	S.		_

Recapitulation of Non-Fatal Accidents, Cause of Injury, Nature of Injury, Percentage of Injuries, Etc.—Continued.

of In- of In- juries		D	NUMBER INJURED	INJUR	ED	Ë	Time Lost	ģ		Z	MBER	NUMBER INJURED	co Co	Time Lost	Lost	å
Work Total Average  Head injured Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruised Hip bruis				Total	Re- turned	Men H		centage of In-		il.	Out.	Total	Re- turned	Men Returned to Work		centage of In-
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Recapitulation of Non-Fatal Accidents, Cause of Injury, Nature of Injury, Percentage of Injuries, Etc.—Concluded.

	NO	MBER	NUMBER INJURED	Œ.	Time Lost		å		ž	MBER	NUMBER INJURED	ED	Time Lost		ğ
CAUSE OF INJURY	ė	Out	Total	Re- turned	Men Return to Work		centage of In-	NATURE OF INJURY	ė	Out	Total	Re- turned	Men Returned to Work		centage of In-
	200	9019		Work	Total /	Average	Bunf		alde	9019		Work	Total Average		B
								Gide Intered	ı.		¥	10		8	97 0
								Side sprained	•		œ	. 00	57 19.00	8	8
	:	-		-		-	:	Thigh bruised	15	-	16	71		8	1.45
	:	<u>:</u>	:	-	<u>:</u>	:	:	Thumb bruised	61		œ	67		8	65.
	÷	:	-	-	:	:	:	Thumb broken	61	:	63	_		8	0.19
		:		•	<del>-</del> :			_	ន	ø	ន	ន		8	8; 8;
	- : :	:		-					4	64	•	ı		86	99.
• • • • • • • • • • • • • • • • • • • •	:	:		-	:	:		Thumb injured	<b>-</b>	:	*	80		2	8
					:::::::::::::::::::::::::::::::::::::::			Thumb mashed	2	-	63	ø		8	8.
	-	:			-			Toe amputated	_	:	-	-		8	9
		-			- <del>:</del>	:		Toes bruised	۵	-	9	0		8	6.0
	:	:			-	-	-	Toes broken	4	-	10	20		8	0.48
	:			•				Toes cut	∞	-	ø	*		8	8
	-:	-			-			Toes injured	-	83	9	•		8	92
		:	:		<u>:</u>			Toes mashed	-	~	۵	۵		<b>*</b>	0.87
	- :	:	-	:		:		Toes punctured	_	-	-	_		8	0.10
	-	:		-	::::			_	*	-	N)	•		86	8
	- : :	:		:	:	-				-	-	-	_	8	9.70
		:	-	-	:	:		Wrist cut	01	-	64	64		8	0.19
		-	-	-				Wrist infected	-	:	-	-		8	0.10
	<u>:</u>	<del>:</del>	:	:	-		:	Wrist sprained	•	-	•	•		8	8.0
Totals	87	18	1.085	87.4	20.274	28.19	100.00		716	118	1.085	118	90,274 28.19	<u>.                                    </u>	100.00

# RECAPITULATION OF NON-FATAL ACCIDENTS, 1916.

	Num	Number Injured	pean		Nur	Number Injured	Jured		Nun	Number Injured	fared		Nur	Number Injured	fared
Residence	In- side	Out-	Inside and Out- side	Nationality	In- side	Out- side	Inside and Out- side	Occupation	In- sfde	Out- side	Inside and Out- side	Name of Mine	In- side	Out- side	Inside and Out- side
Bayne	28	40	83 3	American	164	8:	208	Blacksmith	:	ē9	00	Bayne	. 24	*	88
Buckley	800	0 -	0	Relofan	000	10	2002	Brokeman	01 0		010	Blue Canyon		******	*******
Burnett	37	9	65	Robernian	-			Cheer	2 0	. 0	00	Direct Kiver			00 1
Carbonado	108	87	131	Canadlan	10		10	Carpenter		11	-10	Carbonado, ontsida *	* °	200	19
Centralia	00 1	*****	00 0	Croatlon	00	01	NC:	Car dropper		01	01			3 -	88
Che Plans.	95	- 0	9 5	Dalmatian.	-	61 (	00	Car repairer	1	+	10				14
One Edulia	141	OT	ICT	Dane	21 ,	1	00 (	Chute starter	93	*****	00		9		9
Durbara Durbara	200	000	12	Duten	-	-	04 5	Coke puller		00	00		00		80
Frankling	77	4	14	FUGUSII	9 2	00 0	8 8	Coupler	-	-	01		. 18		18
Fairfay	. 10		- 0	Pronoh	20	17	200	Driver	53		65		. 14		14
Franklin	,		-	German	0 2	0 -	17	Floatriofan		27 -	27 -	Carbonado, No. 5	. 14		14
Ssaquah	65	60	26	Grook	6	-	60	Fredhaar		- 0		Paraham			27
Ladd	61		61	Hungarian.	1-	1	000	Fireboss	100		- 10	Fairfax	07 .	7 6	1 1
Mendota	12	1	13	Irish	10		2	Fireman	-	00	-			100	- 0
New Castle	88	12	48	Italian	196	17	213		1	02	7	s Prairle		1	01.
Palmer	9	01	00	Luxemberg.	+ * * * * * * *	-	1	Hoistman	+		4	Gale Oreek	17	-	181
Kavensdale	00		60	Montenegro	9		9	Laborer	98	89	87	9	11		10
renton	74	0	13	Lithuanian.	*	-	10	Loader	9	4	10	Hyde	00	1	6
Ronald	60	10 1	20	Negro	6		6	Machinist		10	10	Independent		1	-
KOSLYILLINGTON	901	1	173	Norwegian.	-		1	Mine foremen	6	*****	6	Issaquah		2	14
Shoqualmie			7	Pole	20	63	53	Miner	689	00	602	Ladd No. 3	67		61
South France.	0 1	****	01	KUSSIAD	130	4	53	Motorman	-	1	00	Montezuma	1	1	01
piketon	9	-	- 1	Scotch	00		00	Parting boy	1		-	Mendota	12	1	181
aylor		-)	10	Serbian	00	*****	00	Pumpman	61	******	¢1	National, 1 and 8	*	2	10
Lono	13	in.	50	Slav	17		17	Pusher		Q.I	6	Northwestern Imp. Co., No. 3.	98	0	80
VIIkeson	25	91	Z	Swede	18	7	22	Rock picker		7	4	Co.	36	-	23
	0.000	0.000	2.3.5	Turk	1		1	Roller man		1	-	Imp.	- 49	1	25
	Sec. 6.			Welsh	25	10	8	Rope man	67		2	Imp. Co., No.		00	29
A				A SA SA SA SA SA SA SA SA SA SA SA SA SA	Same			Rone rider	10		10	CN OU			

one mine. " Also includes accidents, name of mine not given, nad not assignable to any

Recapitulation of Non-Fatal Accidents, 1916.—Concluded.

Number Inj	Number Inj	Number Inj	Number Injured	ber Injured	penn			Num	Number Injured	nred	Number Injured	njured
In- Out- Inside Nationality In- Out- and side side Out- and side side out- and side side out- side side out- side side out- side side side out- side side side out- side side side side side side side side	Inside Nationality In- Out-	Nationality In- Out-	Out-	<del></del>	Inside and Out-		Occupation	In- side	Out- side	and Out- side	Name of Mine In- Out-side side	Inside and Out-
					020	000	Screener	,	04	61 -	Northwestern Imp. Co., out-	
						400	Surveyor				Side, Roslyn-Cle Flum *	•
							Switcher	15	1	16	_	22
							Teamster	14	1 0	15 0	Pacific Coast Coal Co., No. 11. 38 Pacific Coast Coal Co., No. 14	<b>&amp;</b>
		:	:			_	Timberman helpr	10	******	10	Pocahontas8	=
			<u></u> -				limber packer	1 28	:	800	Renton 72	10
					E	-	racklayer helpr.	-		0	Roslyn Cascade Coal Co., No. 1 2 Roslyn Cascade Coal Co. No. 9	61 <del>-</del>
			:	T	I	H	'rip rider	20	*****	90	Roslyn Coal & Coke Co., Plant	
				5 5	-	55	Washerman	:	-0	- 0	Roslyn Fuel Co., No. 1 18	2
							Occupant				Co. Summit	, t
				:	:	:					Sheldons	-
:						:					Spiketon 18	62 9
											Superior	0 0
					:	:					Taylor	4 10
					•	i		*****	:		-	-
			:	:	:	:		:			92	200
											South 1	15
												• ន
917 118 1,086	1,086	917 118	118		1,065	:		917	118	1,085	1,085	1,085
			-	-	_		•			-	-	_

* Also includes accidents, name of mine not given, nad not assignable to any one mine.

# NUMBER OF NON-FATAL ACCIDENTS,* BY LEADING CAUSES, FOR THE YEARS 1911-1916.

CAUSES			YEA	AR		
CAUSES	1911	1912	1913	1914	1915	1916
Aze		14	29	40	22	8
Coal or rock coming down			18	16	14	1
Coal fiving	• • • • • • • • • • • • • • • • • • • •	15	28 44	10 55	10 61	2 8
Engine, hoisting (steam or		ш	**			1
CIDIOSION of sea or dust		26	41	80 80	2 29	2
all of coal.	18	72	67	80	78	9
POOT POCK, CIRY CIOC,	35	114	158	209	141	19
Pell chute or shart	8	8 40	10 47	2 42	3 12	40
Jumping Off cars		9	8 80	2 81	2 88	
Machinery and caught by same		4	7 10	18 7	7 12	1
Mine cars Mining machines, drills, etc	30	81	126 2	107	88 3	18
Nafi		8	7 8	7 8	5 11	1
Puller		4 18	8	14 2	12	1
10ch			14	8 12	5 13	1
dipposit wire from same			7	14	11	2
rock or coal from	•			11	60	4
	5 7	3 12	1 44	5 56	41	8
TOD:		6 1	22 8	10	15 8	8
ther wire, live	6	31	27	31	14 82	3 11
ime ridents	115	455	778	881	624 706	911 1,08
Ver Ork				20,5884	18,184	20,27
The second second				26.33	26.05	23.1
The part decident, the control of					3,861	3,29
B. B. B. C					29,382	25,59
ent	30,855 236	7,856 211	4,956 229	8,659 206	3,413 165	2,918 218
	4,398	4,362	4,711	4,383	3,683	3,50
	1,383	1,811	1,854	1,264	1,145	1,15
employes  the injured per 1,000 em-	5,781	5,678	6,065	5,647	4,828	4,74
Ploy injured per 1,000 em-	19.7	80.2	127.4	147.4	146.2	218.

given for 1912 only the accidents of time loss of 30 days or more were reported, given for 1918 and 1914 are for accidents of time loss of 5 days and over, and including 1915 accidents of time loss of 24 days and over are given.

## PERCENTAGES OF NON-FATAL ACCIDENTS,* FOR THE YEA 1911-1916, BY LEADING CAUSES.

G A PROPO			YEA	\R		
OAUSES	1911	1912	1918	1914	1915	19
Axe		8.1	8.8 1.7	4.8	8.1 2.0	
chute (Ooal, flying Engine, hoisting (steam or electric)	l	8.8	8.6 5.7	1.2 6.6	1.4 8.6 0.3	
Explosion of gas or dust	7.0	5.7	5. <b>3</b> 8.7	0.1 8.6 0.5 9.6	0.8 4.1 11.1	
Fall of coal.  Fall of rock, clay clod, etc  Falling down chute or shaft  Fell		8.8	20.4 1.3 6.1	25.1 0.8 5.1	20.0 0.4 1.7	
Jumping off cars		2.0	3.9 0.9	0.3 3.7 1.6	0.8 4.7 1.0	
Mine cars	26.1	17.8	1.8 16.8 0.8 0.9	0.8 12.9	1.7 11.8 0.4 0.7	
Nail Pick Pulley wheels		0.7 0.9 2.8	1.0 1.0 0.8	1.0 1.6 0.8	1.6 1.7 0.4	
Pushing car Rock Ropes and wire from same Slipped and fell			0.5 1.8 0.9	1.0 1.5 1.6	0.7 1.8 1.6	
Struck by rock or coal from shots, windy shots			0.9 0.1 5.7	1.8 0.6 6.8	8.5 0.1 5.8	
Trolley wire, live Other causes	5.2	1.8 0.2 6.8	2.8 0.4 8.5	1.2 0.5 8.7	2.1 0.4 2.0	
Outside accidents Inside accidents Total accidents			100.0	100.0	11.6 88.4 100.0	,

^{*}Prior to 1912 only the accidents of time loss of 30 days or more were report Those given for 1913 and 1914 are for accidents of time loss of 5 days and of Since and including 1915 accidents of time loss of 2j days and over for which of pensation has been paid by the Industrial Insurance Commission, are given.

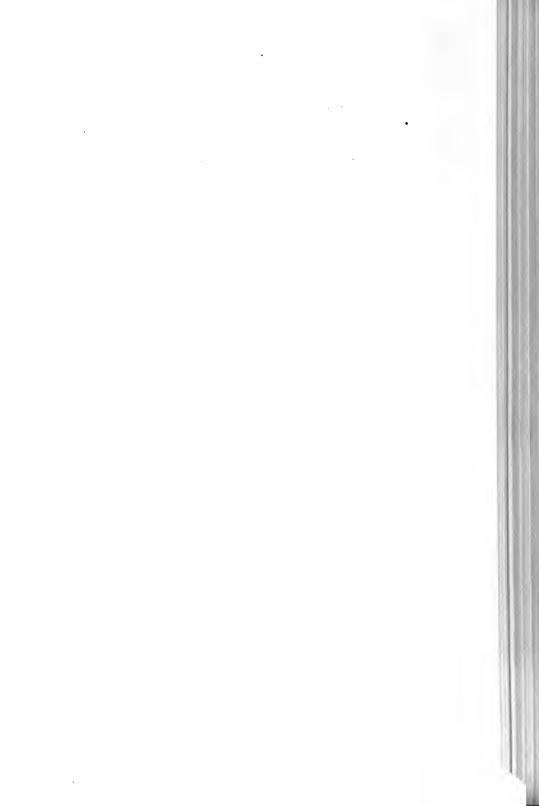


Table Showing Short Tons Produced, Number of Lives Lost, Tons Mined Per Life Lost, Total Days Operated, Average Men Employed, Shifts (Days-Men) Per Life Lost, and Shifts (Days-Men) Operated, at the Mines Where Fatal Accidents Have Occurred During the Period 1905-1916.

TABLE TO MATERIAL TO THE TABLE	1906		1906		1907		1908		1909	
NAME OF COMPANI OR MINE	Tonnage	Killed	Tonnage	Killed	Tonnage	Killed	Tonnage	Killed	Tonnage	KIlled
CLALLAM COUNTY— Clallam Coal Co.—Fuca Mine. Tonnage and lives lost at mines listed.					300		2,979		2,702	: :
KING COUNTY— Carbon Coal Company—Nolte Spur	20,500		22,300		71,12		26,984		31,817	61
Central Coal Co.—Grand Ridge Mine.  Denny-Renton Clay & Coal Co.—Renton.  Denny-Renton Clay & Coal Co.—Taylor Mines.  Hall Comment of Coal Co.—Taylor Mines.	15,500		12,364 15,100		16,550 21,891		8,619		6,913	1
					23,556	1	1,693			
Northwestern Improvement Co.—Ravensdale.  Overdental Mine (P. Gibbons).  Double Coast Coal Co. No.	18,242	<b>-</b>	257,705 31,884		38,088		20°545 1984,04		29,711	
Faring Coast Coal Co.—No. 18. Parific Coast Coal Co.—Morgan Slope (No. 11). Parific Coast Coal Co.—Morgan Slope (No. 11).	201,666 201,666		286,875	- 50 6	231,984	10	209,805		292,782	
Parific Coast Coal Co.—Gem, Franklin Parific Coast Coal Co.—Cannon, Franklin	2,324		71,082		86,645	1	890,16		13,794	
Pacific Coast Coal Co.—Franklin No. 1.  Pacific Coast Coal Co.—No. 7.	96,615 63,847	64	55,584 55,984		88,863	eo	18,050			
Pacific Coast Coal Co.—Ford (New Castle). Pocathorias Coal & Coke Co. (Big 6) (Cannel Coal Co.) Issanush & Sunseior Coal Miring Co.	133,750	7	168,360 879		3,121	- !	166,473	69	246,945	61
Puget Sound Traction, Light & Power Co. (Electric Co.)	117,120	-	116,452		168,209	bo	154,338	-	156.923	
The County . Tonnege and lives lost at mines listed.	1,086,859	5	1,826,824	8	1,446,966	ន្តន	916, 572 908, 902	8 8	1,215,828	7

-	ឆដ		99 99	94	9   80	, as		22
180,228 814,092 166,964	1,550,500	26, 841 28, 444 29, 988	101,451 98,258	280,612 29,612 27,147 21,337 31,397	72,668	001,080 1,467 87,387	90,741 88,884	3,560,689 8,470,558
01 m	22	-		64 14	63 60	<b>9</b>		ងន
284,586 47,800	1,411,268	1,178 19,275 36,870	58,276 57,818	251,721 56,819 71,885 60,662 10,166 8,694 8,694	588,548	15,482	16,082	2,977,490
7	۵۵			HH04 04		•		ळळ
1,941	1,884,481	002 823 130 130 130 130 130	101,275	246,718 44,739 37,481 78,375 2,770 15,474	189,272	19,082 8,000	88,772 27,082	8,722,439 3,566,506
-				Ø H	62 16			នានា
431,000	1,426,668	22,280	38,080 22,260	191,989 19,200 61,543 86,704	+ 92,861	18,534	13,584	3,230,523 3,214,516
7	00	7		7	-	(F)		85
318,967	1,279,686	3,000	3,000	173, 226 26, 640 56, 566 56, 640 111, 22	72,512	8,388	8,383	2,846,901
Northwestern Improvement Co.—No 7, Ofe Elum Northwestern Improvement Co.—Ofe Elum Mines Roslyn Fuel Company—Beekman No. 1. Roslyn Fuel Company—Beekman No. 2.	The County. Tonnage and lives lost at mines listed.	LEWIS COUNTY— Crescent Coal Co. (Const Range Coal Co.) East Creek Coal Co.—Ladd Mine. Mendota Coal & Coke Co.—Mendota Mine. Lewis County Light & Power Co. (Wilson) (Kopiah Coal Co.) Superior Coal Co. (Murphy & Johnson). Pennsylvania Coal Co.—Divide Mine	The County. Tonnage and lives lost at mines listed	Carbon Hill Coal Co.—Carbonado Mines	Witkeen Coal & Oke Co.—Witkeen Mine.  The County *	Tonnage and lives lost at mines listed.  THURSTON COUNTY.— Great Western Coal & Dev. Co. (King Coal Co.), Tenino Washington Union Coal Co.—Tono & Hanniford Mines	The County.  Tonnage and lives lost at mines listed.	The State Tonnage and lives lost at mines listed.

*This is the entire output for the county or State as the case may be. For the State the tonnage includes that of Whatcom county having no mine at which fatal accidents occured. †25,161 tons mined in October, November and December, 1906.

Table Showing Short Tons Produced, Number of Lives Lost, Tons Mined Per Life Lost, Total Days Operated, Average Men Employed, Shifts (Days-Men) Per Life Lost, and Shifts (Days-Men) Operated, at the Mines Where Fatal Accidents Have Occurred During the Period 1905-1916.—Continued.

GAIN GO ARYGNOO BO GAYN	1910	_	1911		1918		1918		1914	
NAME OF COMPANT OR MINE	Tonnage	Killed	Tonnage Killed		Tonnage Killed	Killed	Tonnage	Killed	Tonnage	Killed
OLALLAM COUNTY— Olallam Coal Co.—Free Mine Tonnage and lives lost at mines listed	88									
KING COUNTY— Carbon Coal Company—Noite Spur. Carbon Coal & Clay Co. (Green River Coal Co.) Central Coal Co.—Grean Ridge Mine	11,926 48,171		60,318		48,610	-	68,758 68,685	-	87,174	
	30,945 68,309 8,166		19,784 86,045 12,175	-	88,586 4,966		18,987	'	9,960 84,989 14,247	F
Coal Co. (Sunset Coal Mining Co.) (Deep Oreek) stern Improvement Co.—Ravensdale.  al Mine (P. Gibbons)	152,327 34,562	∞ ⊢	10,467	-	4,474 114,111 25,984		9,924 154,065 32,745	-	18,666 127,972	-
Pacific Coast Coal Co.—No. 14. Pacific Coast Coal Co.—Norgan Slope (No. 11) Pacific Coast Coal Co.—Lawson.	181,079 272,002 88.089	64 to 15	123,506 255,736	LD.	106,815 246,042		119,045 288,765	<b>⇔</b>	67,688 164,762	
Co. 1	87,628	-	47,108 1 58,715	-	<b>38,715</b>		40,819 6,125		46,319 86,868 2 6,125 86,868 2	61
Pacific Coast Coast Ocal Co.—No. Practic Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast Coast C	223,728	-	224,842		210,881		292,124		244,778	
Issaquah & Superior Coal Mining Co	161,141		170,447		108,968	-	90,487 139,562	::	80,994 118,218	•
The County by 100s lost at mines listed	1,808,714	88	1,241,686	<b>∞</b> ∞	1,060,968	7	1,859,274	1010	1,042,007	10

Northwestern Improvement Oc.—No 7, Ole Elum Northwestern Improvement Oc.—Ole Elum Mines Realtn Friel Company—Beekman No. 1 Boaltn Friel Company—Beekman No. 2.	215,995 307,088 253,971	- eı	174, <b>806</b> 157,744 241,900 11,906		188,964 180,207 182,484 47,515	-	188, 546 181, 196 211, 940 131, 542		148,886 145,091 208,560 61,518	:	
The County * Tonnage and lives lost at mines listed.	1,667,458	10 10	1,254,845	22	1,285,690	64 69	1,830,596	10 10	1,287,564	•• ••	
LEWIS COUNTY— Crescent Coal Co. (Coast Range Coal Co.) East Creek Coal Co.—Ladd Mine. Mendota Coal & Coke Co.—Mendota Mine. Mendota Coal & Coke Co.—Mendota Mine. Lewis County Light & Power Co. (Wilson) (Kopiah Coal Co. Superior Coal Co. (Murphy & Johnson). Pennsylvania Coal Co.—Divide Mine.	.56,880 .56,987 .74,072		44,908 57,446 43,882 8,378	-	24,988 70,927 9,288 7,606 6,568	-	32, 825 65,089 1,660 16,885 8,887		7,140 42,485 1,923 14,856 1,516		
The County * Tonnage and lives lost at mines listed	172,219		158,801 154,596		127,982	-	148,502	00	87,568 67,873		
PIERCE COUNTY—  Gurbon Hill Coal Co.—Carbonado Mines.  Gale Creek Coal Mines Co. (Tremont) (West Taroma Co.)  Northwestern Improvement Co.—Modmont Mine.  Northwestern Improvement Co.—Modmont Mine.  Faddle Coast Coal Co. (South Prairie) Burnett Mine.  South Wills Coal Co. (American) (Coast) Spiketon.  The Furfatx Mine Inc. (Taroma Smedting Co.).  Northwestern Iron & Steal (Mashall Adjoort Mine.)	277,728 4,676 68,871 115,546 78,981 98,138		319,218 28,756 76,734 156,908 84,731 21,968	ю н	288, 422 37, 889 61,066 159,609 89, 316	- 0-	298, 542 49, 245 64, 072 144, 588 100, 061 30, 972 21, 700		187,907 29,138 66,094 121,514 28,129 86,140 8,666	<b>-</b>	
	118,732	-	107,420	61	132,960		127,848	61	117,787	04	
The County * Tonnage and lives lost at mines listed.	198, 1987 178, 1887		726,768 807,387	<b>∞ ∞</b>	789,320		882,272 881,967	<b>0 0</b>	568,841 549,708	es es	
THURSTON COUNTY— Great Western Coal & Dev. Co. (King Coal Co.), Tenino Washington Union Coal Co.—Tono & Hanniford Mines	28,769		396,986		136,478		158,688		109,580	-	
The County * Tonnage and lives lost at mines listed.	28,28 28,785		98,846 98,945		136,478 136,478		158,588 158,568		112,189 109,589		
The State Tonnage and lives lost at mines listed.	8,979,660 8,841,846	<b>33</b>	8,548,892 8,412,508	22	3,846,946 8,190,592	7.71	8,881,647 8,680,020	នានា	8,040,361 2,800,675	11	

For the State the tonnage includes that of Whatcom county having no *This is the entire output for the county or State as the case may be. mine at which fatal accidents occured.

Table Showing Short Tons Produced, Number of Lives Lost, Tons Mined Per Life Lost, Total Days Operated, Average Men

	1915		1916					1906-1916			
NAME OF COMPANY OR MINE	Tonnage Killed	Killed	Tonnage Killed	Killed	Tonnage	Killed	Tons Mined Per Life Lost	Total Days Worked	Average Men Eml ployed	Men- Days Per Life Lost	Shifts (Men- Days)
CLALLAM COUNTY— (Mallam Coal Co.—Fuca Mine					6,677		6,677	88.	22	16,716	16,716
KING COUNTY— Carbon Coal Company—Nolte Spur	708.05	-	58.67		134,654	61 65	147,793	1,615	\$ 2	34,870	913,956
Central Coal Co-Grand Ridge Mine. Denny-Renton Clay & Coal Co - Renton.	668 6	. :	24,007		249,764	) c	249,784	1,438	: = =	102,217	102,217
Denny-Renton Clay & Coal Co.—Taylor Mines	21,380		90, 882 16, 882	-	\$3.15 \$2.82		141,766	2,847	83	49,186 17,984	147,558
Durham Colliery Company – Mines 1 and 2	18,854 28,64		30,886	61	58,742	1 61 F	66 86 86 86	458	<b>\$</b>	11,015	22,23 25,63
Northwestern Improvement Co.—Ravensdule	124,347	잃			1,787,788	· \$ «	\$ 6 5,45 5,45	2,654	884	15,882	682,865
Pacific Coast Coal Co.—No. 14.	44,512		3,148 906 905		1,052,227	:-;	150,317	2,718	135	96,949	419,643
Const Conl					504.227	, <u>ee</u> e	28,012	1.045	25.	14,258	256,552
Const	5,196				48,179	. 61 9	24,080	1367	132	17.966	85,912
Pacific Coast Coal Co.—Frankini No. 1					130,500	64 0	66,265	96	3 25	27,607	55,214
Pacific Coast Coal ('o.—Ford (New Castle)	88.81 8.81 8.81 8.81 8.81	: :-	26,100 26,000 26,000 26,000 26,000	N :	47,597	<b>3</b>	302,236 47,567 950,088	1.061	3,88	28.386 28.336 26.336	82,826 128,826
Puget Sound Traction, L. & P. Co. (Electric Co.).	120,048	-	135,208	-	1,659,518	- 21	138,288	3,124	268	60,734	836,808
The County Tonnage and lives lost at mines listed	844,986 839,108	22	889,275 888,487	c c	13,745,076	147	98,504	2,845	1,928	87,314	5,486,156

987, 484 402, 338 96, 847	6,067,980	4,860 118,860 94,866	141,458 23,687 16,187	474,747	1,543,858	962,887 989,989	284,678	28,525 670,049	4,137,920	28,790 189,486	230,116 218,276	15,477,908 14,608,692
117,185 67,000 96,847	77.6,143	39,458	11,843	36,519	70,175	184,577	36,989 96,910	37,225	61,760	28,790 47,371	46,023	47,624
5E.3	1,906	822	858	180	: : :	304 143	さま	캶춣	1,292	108	117	5,538
2,525, 2,277, 1,100	2,586	2,656 1,356	2,066 1,588 752	2,504	3,40g	8,2,2,5 08,5	8,168 1,616	8,28 8,281	8,202	1,748	1,985	2,786
254,887 254,887 430,380	175,150	4,423 82,834 138,082	38,474 88,474 6,100	91,361	181,073	248,229	209,600	70,240	111,919	42,416 296,445	193,136	121,868
<b>00-</b>	8.83	- 00	31 co	13	ន្ឍ⇔៰	10 00	<b>4</b>	e2 82	25	- 4	ro ro	<b>8</b> 88
2,961,404 1,596,023 130,320	16,114,676	4,423 247,004 414,007	257,076 06,948 18,290	1,187,698	377,881	1,241,146	238,400 209,605	1,264,325	7,498,623	42,416 905,780	965,688 948,196	39,608,762
	90	-			61	က		61		-		22
136,968 122,008 116,324	1,816,908	4,521	11,738	100,121	249,124 32,018	96,822	16,106	108,357	583,102	165,066	165,066 165,066	8,019,600 2,859,152
	20 20				4	-		-	9 8	-		5.5
90,012 136,387 61,515	870,082 784,397	3,476	8,518	78,259	199,469	84,461	20,634	110,425	488,683 471,948	112,096	112,096	2,409,331
Northwestern Imp. Co. Cle Elum Mines. Rosiyn Puel (Vompany-Beekman No. 1 Rosiyn Puel (Vompany-Beekman No. 2		Co. (Const al Co.—La	Lewis Co. Lt. & P. Co. (Wilson) (Kopiah C. Co.) Superior Coal Co. Murphy & Johnson). Pennsylvania Coal Co.—Divide Mine	The County. Tonnage and lives lost at mines listed	PIERCE COUNTY— Carbon Hill Coal Co.—Carbonado Mines Gale Creek C. M. Co. (Tremout) (W. Tacoma Co.) Northwestern Inn. Co. Malmont Mine	Pacific Coast Coal (° (S. Parire) Burnett Mire. South Willis (° Coal (° (American) (Coast) Spiketon	The Fairfax Mine Inc. (Tacoma Smelting Co.)	Northwestern Iron & Nicel (Mashell) Ashford Mine Wilkeson Coal & Coke Co.—Wilkeson Mines	The County * Tonnage and lives kost at mines listed	THURSTON COUNTY— Gt. Western Coal & D. Co. (King Coal Co.) Teninol Wash. Union Coal Co.—Tono & Hanniford Mines.	The County • Tonnage and lives lost at mines listed	The State Tonnage and lives lost at mines listed

the total number of days worked. The sum of the shifts for the period 1905-1916 is shown in the table. The shifts for the county or State as the case may be, is the sum of the shifts at the individual mines. The total days operated at each mine is the sum of the shifts operated each year. The average number of men at each mile for the 12-year period was found by dividing the total shifts by the total days operated in the counties and State was found by adding the average days worked each year, and the average number of men employed during the period was found by dividing the total shifts by the total shifts by the total days worked sach year, and the average number of men employed during the period was found by dividing the total shifts by the total days worked. State the tonnage includes that of Whatcom county having no For the * This is the entire output for the county or State as the case may be. mine at which fatal accidents occured.

Table Showing Short Tons Produced, Total Days Operated, Average Men Employed, and Total Shifts (Men-Days) Worked

	1806	1906	1907	1908	1906	1910	1811	1912
NAME OF COMPANY OR MINE	Tonnage	Tonnage	Tonnage	Tonnage	Tonnage	Топпаве	Tonnage	Tonnage
0.	0.).			7,616	1,122			
Bilack fiver coat Company—Base Arever Pacific Coast Coal Company—Mine "B"—Black Diamond Pacific Coast Coal Company—No 12.							6,174	84,983 20,468
Cassidy Coal Company (Fleet Coal Co.)—Eureka Mine. Denny-Renton Clay & Coal Company—Kummer	15,080	8,680	9,580	2,507	2,158	8, 121	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	
			022,7	2,547		5,085	2,672	
Shoqualine Coal Company—Niblock Mine. Cedar Mountain Coal Company	35,000	17,500	087,°0				None given	
Tonnage of mines listed	26,000	27,007	23,545	12,670	3,280	8,156	17,281	87,386
KITTITAS COUNTY— Independent Coal & Coke Company—Cle Elum. Restry Cassade Coal Co. (Patrick-Mackay)—Nos. 1 and 2.	19 28			14,306	28,257	083.09	748.88	97.001
Roslyn Coal & Coke Company—Plant Mine Roslyn Fuel Company (Summit Mine) (Summit Coal Co.).	000'6	21,204	85,022	21,241	23,027			
T. B. Wright & Sons.  American Canadian Piel Company—American Mine.  Busy Bee Minhe & Development Company—Busy Bee Mine.			8,613	5,794	7,867	16,780	22,014	7,009
Northwest Coal Company. Consolidated Fuel Company.  Yakima Roglyn Coal Company—K. & E. Mine.	8.89	922		8,786	798 25,990	6,390 23,864	1,454	
Brown & Mackay—Brown Mine.	1	21,850	38,635	50,216	88,430	107,623	106,815	104,010
•	18,256 Co.)	:	38,635	80,216	88,480	107,623		06,315
Tonnage of mines listed	Co.)				:		<u>:</u>	

Table Showing Short Tons Produced, Total Days Operated, Average Men Empleyed, and Total Shifts (Men-Days) Worked at the Mines Where No Fatal Accidents Have Occurred During the Period 1905-1916.—Continued.

	1906	1906	1907	1908	1906	1910	191	1912
NAME OF COMPANY	Tonnage	Tonnage	Tonnage	Tonnage	Tonnage	Tonnage	Tonnage	Tonnage
LEWIS COUNTY (Continued)— Sheldon Coal Company. Salzer Valley Coal Company (Marion Howell). Cheralls Coal Commany—Leonard's Mine Cheralls Coal Commany (Radiaer Coal Co					6.779		3	2,138
W. M. Ladd Company—Ladd Mine	1,500	15,000 2,400	17,492	298	878			!
Tonnage of mines listed	1,300	17,400	25,851	196	3,196	5,780	4,208	8,686
PIERCE COUNTY.— Wight, Mangaree Coal & Cop'r (O.(Evans Creek)(Montexums) Padde Coal & Oll Commany (Shell)	2:400	5,383	22,775	16,787	13,625	3,084		
Black Carbon Coal Company (Luzon Coal Co.).  Brier Hill Coal Company.		<u>::</u>	88	5,080 230				
Tonnage of mines listed	2,400	9,741	27,907	22,006	13,625	3,084		
THURSTON COUNTY— Bucoda Coal Company (Majestic Coal Co.) Graham Bres, Illinek Bearl (Teolno Coal & Fron Co.)			6.740	98			579 3,926	
Perth Coal Company.			<u>:</u>		1,907	1,186		
Tonnage of mines listed			6,740	929	1,907	1,186	4,504.	
WHATCOM COUNTY— Whatcom County Coal (company—Blue Canyon Mine			3,160	18,963	14,682	12,415	3,476	6,523
Tonnage of mines listed			3,160	18,963	14,632	12,415	3,476	6,523
COWLITZ COUNTY-Cardiff Coal Company Consumer Mine at Kelso			None given					
THE STATE— Tounage of mines listed	72,256	76,007	125,928	106,862	120,081	138,224	136,729	156,664

Table Showing Short Tons Produced, Total Days Operated, Average Men Employed, and Total Shifts (Men-Days) Worked

	1918	1914	1915	1916	· :	9081	1905-1916	
NAME OF COMPANY OR MINE	Tonnage	Tonnage	Tonnage	Tonnage	Tonnage	Days Worked	Average Number Empl'yes	Shifts (Men- Days)
KING OCUNTY—  Crark Coal Company (Scranton Coal Co.) (Naval Coal Co.)  Black River Coal Company—Black River.  Pacific Coast Coal Company—Mine "B"—Black Diamond Pacific Coast Coal Company—No 12.  Cassidy Coal Company (Fleet Coal Co.)—Eureka Mine Denny-Renton Clay & Coal Company—Kummer.  Mary Creek Coal Company—Mary Creek Superior Coal Company—Bary Creek Superior Coal Company—Baryline Mine.  Snoquamie Coal Company—Baryline Mine.  Socquamie Coal Company—Niboek Mine.  Oedar Mountain Coal Company—Cumberland	800 '19	98,88	1,088 266 4 4,500	888 88	25,000 105,688 18,387 8,387 8,172 8,172 10,287 11,083 12,063	787 787 912 876 2,1,506 2,28 8,41 8,41 8,60 9,00 9,00 9,00 8,00 8,00 8,00 8,00 8,0	8 63.45.224.88	17,066 (8,441 12,968 18,019 2,509 14,745 28,009 11,700 11,700
Tonnage of mines listed	60,008	10,900	5,888	888	1367,947			188,169
KITTITAS COUNTY— Independent Coal & Coke Company—Cle Elum. Roslyn Gasede Coal Co. (Patrick-Mackay)—Nos. 1 and 2. Roslyn Coal & Coke Company—Blant Mine. Roslyn Roal & Coke Company—Blant Mine. T. B. Wright & Sons. American Ganadian Fuel Company—American Mine. Busy Bee Mining & Development Company—Busy Bee Mine. Northwest Coal Company. Northwest Coal Company Northwest Coal Company Xakma Roslyn Coal Company Xakma Roslyn Coal Company Xakma Roslyn Coal Company Xakma Roslyn Coal Company Xakma Roslyn Coal Company	1,100	77,787 1945 7,846	71,688 7,828 15,041 663	7,271 7,017 7,173 20,788 90,788	1,271 615,687 16,687 1,087 7,000 55,688 55,788 7,1197 7,1197 66,689	2, 12, 25, 12, 12, 13, 14, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15	868300874 <b>8</b> 0	24.28 26.88 26.88 26.88 26.88 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74 27.74
Tonnage of mines listed	106,888	98,257	36,48	102,568	987,756			8
LEWIS COUNTY.— Contrains Coal M. Co. (Empress Coal Co.) (Wash. C'l & M. Co.) Forth Fraire Coal Company—Preferror Freeburn Coal Company—Preferror Montrel Coal Company—Ropish.	8 8,116 1,230	1,705	5,144 4,677	8,025 10,207 • 1,864	18,140 38,974 1,804	1,084	17	11,160

1918 1919 1919	1918	1914	1915	1916			1906-1916	
NAME OF COMPANY OR MINE	Tonnage	Tonnage	Tonnage	Tonnage	Tonnage	Days Worked	Average Number Empl'yes	Shifts (Men- Days)
LEWIS COUNTY (Continued)— Shedon Coal Company Saker Valley Coal Company (Marion Howell)	10,867	11,008	9,417	14,877	1,700	1,808	23.★	16,821
Chenais Coal Company Leconds a subs- Lincoln Coal Company (Rathier Coal Co.) Certralia Coal Company (Poliatch) WM. Ledd Company—Ladd Mine. W. G. Gibson—Gibson Mine.		876	B N		2,112 17,886 83,697 5,800	88 178 75 75	SI to SE to	2,168 7,117 28,141 2,400
Tonnage of mines listed	24,106	20,186	26,188	41,862	179,846			75,835
PIERCE COUNTY— Wah. Manganese Coal & Cop'r Co. (Evans Creek) (Montezuma) Padfie Coal & Oil Company (Snell) Black Carbon Coal Company (Luzon Coal Co.) Briar Hill Coal Company	208	4,189	16,746	4,212	88,940 11,230 5,089 1,080	1,56 76 18. 14.0	E \$ 52 °	78,978 19,550 2,258 1,260
Tonnage of mines listed	306	4,188	16,746	4,212	104,248			106,041
THURSTON COUNTY— Bucoda Coul Ompany (Majestic Coal Co.) Graham Bros. (Black Bear) (Tenino Coal & Iron Co.) Perth Coal Company		2,000			8,179 11,215 8,000	87. 644. 888	9 8 0	8,522 5,708 8,615
Tonnage of mines listed		2,600			17,487			11,840
WHATCOM COUNTY— Whatcom County Coal Company—Blue Canyon Mine	7,825	99,9	6,205	5,983	98()394	2,766	23	75,879
Tonnage of mines listed	7,820	9,900	6,256	5,983	85,334			75,879
OOWLITZ COUNTY— Oardiff Coal Company—Consumer Mine at Kelso							8	
THE STATE. Tonnage of mines listed.	201,027	140,686	149,716	100,448	100,448 1,688,619			779,801

* Tonnage given only for this year.

PRODUCTION OF COAL IN WASHINGTON, 1900-1916, BY COUNTIES, IN SHORT TONS.*

1908.	2,999, 946,572 1,411,243, 56,275 563,400 16,032 18,968	2,977,490
1907.	300 1,564,421 101,275 612,539 3,100	3,782,433 \$7,706,890
1906	1,398,984 1,498,658 39,660 488,882	3,290,523 \$6,021,157
1905	1,116,877 1,006,568 1,396,844 1,386,601 1,779,486 1,496,658 1,955 4,500 4,500 39,640 10,650 8,383 13,534	2,846,901
1961	1,116,877 1,380,601 1,985 514,570 10,660 15,000	2,966,639
1808	1,886,500 1,876,017 1,800 375,286 19,256 1,000	3,290,468
1902	1,012,217 1,252,454 401,091 19,017 6,010	2,690,780
1901	865,229 1,006,027 575,001 12,043 8,200	2,466,190
1900	866,566 867,204 565,605 10,430	2,418,084
COUNTY	Ciallam King Kittitas Lewis Plere Skagit T'hurston	TotalsTotal value

. This table has been very carefully compiled from the Mine Inspectors' Reports and checked by adding the tonnage at the individual mines.

in Washington, 1900-1916, by Counties, in Short Tons.—Concluded. Production of Coal

Increase or Decrease, 1916	-44,306  -457,981  -50,808	86,98 -272	-  -610,960	-1-61,701,798
1916	889,275 1,316,988 100,121 538,162	165,088	8,019,600	\$7,155,317
1915	844,906 879,082 78,259 488,093	112,096 6,255	2,400,331	\$5,398,724
1914	1,042,007 1,237,364 87,368 553,841	112,189 6,602	8,040,301	\$7,142,08H
1918	1,866,274 1,330,506 148,562 832,272	153,586 7,885	3,881,647	\$6,965,362
1912	1,050,953 1,235,690 127,982 789,320	136,478 6,528	3,346,940	\$8,122,572
1911	1,241,568 1,254,845 158,801 796,768	98,849 3,476	3,548,922	\$8,507,384
1910	1,811,870 1,667,458 172,219 784,961	29,966 12,415	3,979,500	\$10,206,400
1900	7.7	:	8,500,630	\$0,245,805
COUNTY	Cialiam King Kitittas Lawis Pierce Pacacia	Thurston Whatcom	Totals	Total value





No. 7 Mine Tipple, Northwestern Improvement Co., Cle Elum, Wash.



Snow Sheds, Cle Elum Mine, Northwestern Improvement Co., Cle Elum, Wash.



OT. 1860-1916, IN SHORT TON.	-11	Anguard Anguard	24		2,690,789	~ -::		67	~ ::			3,500,630
Z	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	=	1900	1901	180	1908	186	1906	1906	1904	1906.	1900.
1860-1916,	/ Onentho	(11111 <b>2</b> 11)	1,268,680	1,066,249	1,140,575	1,208,860	1,131,660	1, 163, 737	1,202,584	1,330,192	1,775,257	1,917,607
201	NON	1.00.	1890	1801	1802	1868	189	1896	1866	1807	1898	1800
	N WABH	Quantity	145,015	196,000	17,20	244,990	106,936	380,230	123,325	772,601	1,215,750	1,030,578
	COAL	Year	1880	1881	1886	1888	1881	1882	1886	1867	1888	1880
	PRODUCTION OF COAL	Quantity	17,84	20,000	88,000	38,000	30,352	99,568	110,342	120,896	131,000	142,666
	PRODU	Year	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879
		Quantity	5.874	000	2,000	8.000	10,000	12,000	13,000	1.500	15,000	16,200

1860. 1887. 1866. 1866. 1866. 1866. 1868.

Year

Quantity

Year

3,979,500 3,548,822 3,846,946 3,831,647 8,040,361 2,409,331 3,019,600

1910. 1911. 1912. 1913. 1914. 72,240,613

Total..

1800-1801, inclusive, are taken • From Mine Inspectors' Reports. Typographical errors appearing in former reports have been corrected. from U. S. G. S. Reports.

# SUMMARY FOR THE YEARS 1900-1916.*

Average ber Tons Per Man							_				_					2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
rer Total Number of of Employee			_					_								25 25 25 25 25 25 25 25 25 25 25 25 25 2
Total Number of Outside	<u> </u>	_			_		_	_	_		_					2 1 2 8 8 1 2 8 8 1 1 8 8 8 1 1 8 8 8 1 1 8 8 8 1 1 8 8 8 1 1 1 8 8 8 1 1 1 8 8 8 1 1 1 8 8 8 1 1 1 8 8 8 1 1 1 8 8 8 1 1 1 8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Total Number of Inside	3.447	3,94	3,518	_		_		_		_	_					2 9 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Average Value of Coke Per Ton		2 8	2.8	2.00	2.0	12	<b>*</b>	6 19	28 0	5	3	28		න් න කි කි ක් න ක ක	න්න්න නි නෙන්න න	# \$2 \$2 \$2 \$2 \$\phi and and and and and and and and and and
Total Nalue of Coke at Mine	\$176.012	245,886	202,845	280,083	280,875	242,117	215,731	306,250	206,596	080	3	322,982	886, 882 886, 882	28.88.79 28.98.98.79	28.28.28. 28.98.28.28.28.28.28.28.28.28.28.28.28.28.28	222,982 223,948 270,748 425,682
Total Coke Production in Short Tons	35.88	19.197	45.880	47,916	46,175	30,972	1.94	46.788	84,381	19 335		56,715	8.0 17.0 10.0 10.0 10.0 10.0 10.0 10.0 10	88, 43, 517, 68, 68	68.04 6.05 6.05 6.05 6.05 6.05 6.05 6.05 6.05	188 04 84 E4 E4 117 08 68 E4 E4
Average e Value Per Ton at Mine	-															01 01 01 01 91 8 4 4 8 %
Total Value at Mine	\$4.425.002	4 856 394	5,300,864	6.580.936	5,697,402	5,779,200	6.021,157	7,706,890	6.064.002	9.245.896		10.266.400	10,266,400 8,507,384	8,507,384 8,122,572	10,286,400 8,507,384 8,122,572 9,985,382	10,266,400 8,507,384 6,122,572 9,965,362
Total Coal Production in Short Tons	9, 418,084	2,466,190	2.000.780	3.290.468	2,908,633	2,846,901	3.290.523	3, 729, 488	9.977.490	3 590 689	000	3.875	3, V/V, 100	3,548,322	3,548,322 3,548,322 3,840,940	8,548,322 8,546,946 8,881,647 9,040,946
YEAR	1 8	8		20	706	9	90	26	90			CR	910	910. 311.	210.	1910 1911 1918 1918

* This table has been earefully checked and typographical and other errors corrected.

Summary for the Years 1900-1916.—Concluded.

	Average	Number of Days	Number	Number	Number	Number	Death Rate	Non-Fatal Accidents	Tons	Tons Mined Per
-	Output Per Man	Worked (Average)		Non-Fatal Accidents	of Widows	Orphans	Per 1,000 Employes		Per Life Lost	Non-Fatal Accident
			.88	92	9	88	57.7	19.4	73.273	000.18
106			23	88	•	=	6.8	16.9	91.340	30.075
208			\$	Z	21	8	28.	18.4	79,141	69.800
808			83	88	9	8	5.18	17.0	181,618	89,644
706			<b>ಪ</b>	古	14	53	8.8	11.6	96.731	28
	2.43	286	2	8	2	11	2.61	18.1	218,908	31.682
906	2.45	257	ន	92	~	10	4.21	14.5	149,560	43,296
206	2.38	022	S	88	12	ž	9.00	16.0	100,000	34.58
908	25.28	218	8	æ	2	9	<b>4.8</b>	14.7	119,000	89,18
	25.27	247	28	98,	81	8	6.81	83	790,067	<b>5</b>
910.	2.46	25	3	108	81	8	7.08	17.6	88.548	28.847
	20.00	78	2	115	7	9	4.67	19.7	131.419	30.866
912	2.62	83	7.7	255	-	10	2.46	80.2	239,068	7.856
813	2.5	192	8	2	•	18	3.06	127.4	174.165	986
214	200	006	12	<b>8</b>	a	8	8.0	147.4	178.845	8
915.	5	2	4	2	85	2	8	146.9	99	8.418
	5	2	3	2	=	3	67 7	1 0 10	140,700	9

OPERATING COMPANIES WITH NAMES OF OFFICERS AND MINING ENGI	TCERS AND MINI		OR THE	CEAR 1916.
NAME OF COMPANY-HOWE ADDRESS	Name of Mine	President	Manager	Mining Engineer
Adrew Remedy, Coleman Building, Seattle, Wash.  Andrew Remedy, Coleman Building, Sayne, Wash.  Andrew Remedy, Company, Bayne, Wash. Carbon Coal and Clay Company, Bayne, Wash. Carbon Coal and Clay Company, Bayne, Wash. Demy-Renton Clay and Cool Company, Hoge Bidg, Seattle, Wash. Demy-Renton Clay and Cool Company, Bost Bidg, Seattle, Wash. Demy-Renton Clay and Cool Company, Durham, Wash. Nos. I and S.  Hyde Coal Company, Safuray Exchange Bidg, Seattle, Wash. Nos. I and S.  Parific Coast Coal Company, Black Diamond, Wash. Parific Coast Coal Company, Black Diamond, Wash. Parific Coast Coal Company, Black Diamond, Wash. Parific Coast Coal Company, Black Diamond, Wash. Pocahontas Coal and Coke Company, Palmer, Wash. Pocahontas. Present Coal Company, Palmer, Wash. Present Coal Company, Palmer, Wash. Present Coal Company, Palmer, Wash. Present Coal Company, Palmer, Wash. Present Coal Company, Palmer, Wash. Present Coal Company, Palmer, Wash. Present Coal Company Palmer, Wash. Present Coal Company Palmer, Wash. Present Coal Company Palmer, Wash. Present Coal Company Palmer, Wash. Present Coal Company Palmer, Wash. Present Coal Company Palmer, Wash. Present Coal Company Palmer, Wash. Present Coal Company Palmer, Wash. Present Coal Company Palmer, Wash. Present Coal Company Palmer, Wash. Present Coal Company Palmer, Wash.	Grand Ridge Carbon Daly Taylor Denny-Renton Denny-Renton Hyde Issaquah Issaquah Navy Navy No. 1 Pord Pord Pocahontas	M. B. Daly M. B. Daly Moritz Thompson. O. B. Glaghorn. Samuel Hyde. F. S. Licke Stephen H. Green. E. C. Ward J. B. Miller A. W. Leonard.	Juniora income e e con	Andrew Kennedy. H. L. Hawkins. D. S. Hanley. D. S. Hanley. D. S. Hanley. H. L. Handley. John P. Keenan. John P. Keenan. Philip Rowe. P. C. Kettle. Stephon H. Green. J. R. Linton. W. J. Bobo. W. J. Bobo. W. J. Bobo. W. J. Moore. M. J. R. Miller. J. R. Miller. J. R. Miller. J. R. L. Kempeter. M. E. Olark.
KITTITAS COUNTY— Independent Coal and Coke Company, White Bidg., Seattle, Wash. No. 1 Independent Coal and Coke Company, N. P. Bidg., Tacoma, Wash. No. 8 Northwestern Improvement Company, N. P. Bidg., Tacoma, Wash. No. 8 Northwestern Improvement Company, N. P. Bidg., Tacoma, Wash. No. 7 Northwestern Improvement Company, N. P. Bidg., Tacoma, Wash. No. 7 Northwestern Improvement Company, N. P. Bidg., Tacoma, Wash. No. 7 Resign Careade Coal Company, South Bellingham, Wash. No. 1 Resign Careade Coal Company, South Bellingham, Wash. No. 1 Rosign Careade Coal Company, South Bellingham, Wash. No. 1 Rosign Puel Company, White Bidg., Seattle, Wash. No. 1 Rosign Puel Company, White Bidg., Seattle, Wash. No. 1 Rosign Puel Company, White Bidg., Seattle, Wash. No. 1 Rosign Puel Company, White Bidg., Seattle, Wash.	No. 1 Prescott Oakes. No. 6 J. M. Hamiford. No. 5 J. M. Hamiford. J. M. Hamiford. No. 7 J. M. Hamiford. J. M. Hamiford. J. M. Hamiford. J. M. Hamiford. J. M. Hamiford. J. M. Hamiford. J. M. Hamiford. J. M. Hamiford. J. M. Hamiford. J. M. Hamiford. J. M. Hamiford. J. M. Hamiford. J. M. Hamiford. J. M. Hamiford. J. M. Hamiford. J. M. No. 2. Prescott Oakes.  Bummit. Prescott Oakes.	Prescott Oakes. J. M. Hamiford. J. M. Hamiford. J. M. Hamiford. J. M. Hamiford. J. M. Hamiford. Francis P. Larabee. Francis P. Larabee. Francis P. Larabee. Francis P. Larabee. Francis P. Larabee. Francis P. Larabee. Francis P. Larabee. Francis P. Larabee. Francis P. Larabee. Francis Oakes. Frescott Oakes. Frescott Oakes.	C. E. Jones C. C. Andersen C. C. Andersen C. C. Andersen C. C. Andersen C. C. Andersen C. C. Andersen W. Mackay W. Mackay W. Mackay W. Mackay W. Mackay W. Mackay W. Mackay W. Mackay W. Mackay W. Mackay W. Mackay W. Mackay	Fred Blanco George Reig George Reig George Reig George Reig George Reig J. E. Ash J. E. Ash Fred Blanco Fred Blanco

Operating Companies With Names of Officers and Mining Engineers for the Year 1916.—Concluded.

NAME OF COMPANY—HOME ADDRESS	Name of Mine	President	Manager	Mining Engineer
Centralia Coal Mining Co., Centralia, Wash.  East Creek Coal Company, Ladd, Wash., Fords Prairie Coal Company, Centralia, Wash. Mendota Coal and Coke Company, Centralia, Wash. Sheldon Coal Company, Centralia, Wash. Sheldon Coal Company, Centralia, Wash. Salzer Valley Coal Company, Chelalis, Wash. Salzer Valley Coal Company, Chelalis, Wash.	Empress Ladd Ladd Fords Prairie Mendots Modarch Salzer Valley Superior	M. L. McGraw John Bagley A. D. Foron B. H. Johnston W. D. Sheidon W. F. West	B. H. Johnston. T. E. Martin. W. F. West	T. E. Martin.
PIERCE COUNTY— Carbon Hill Coal Company, Carbonado, Wash, Carbon Hill Coal Company, Carbonado, Wash, Carbon Hill Coal Company, Carbonado, Wash, Carbon Hill Coal Company, Carbonado, Wash, Carbon Hill Coal Company, Carbonado, Wash, Carbon Hill Coal Company, Carbonado, Wash, Gabon Hill Coal Company, Carbonado, Wash, Gale Creek Coal Mines Company, Tavoma, Wash, South Willis Coal Company, Spiketon, Wash, South Willis Coal Company, Spiketon, Wash, South Willis Coal Company, Spiketon, Wash, Washington Manganese, Coal and Oopper Company, Tavoma, Wash, Washington Manganese, Coal and Copper Company, Tavoma, Wash, Walkeson Coal and Coke Company, Tavoma, Wash,	Wingate Miller Electric Slope Carbon No. 5 Douty Gale Creek Burnet Champion Fairfax Wilkerun	W. H. Crocker J. F. Menzles W. H. Crocker J. F. Menzles W. H. Crocker J. F. Menzles W. H. Crocker J. F. Menzles W. H. Crocker J. F. Menzles W. H. Crocker J. F. Menzles W. H. Crocker J. F. Menzles Henry Hewitt, Jr. M. Hann Abe Morris Abe Morris Abe Morris Abe Morris H. O. Marry W. R. Rust W. R. Rust H. O. Marry W. H. Rowe	J. F. Menzies J. F. Menzies J. F. Menzies J. F. Menzies J. F. Menzies J. F. Menzies J. F. Menzies Mm. Hann Abe Morris W. H. Rowe	John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John Harvey John H
THURSTON COUNTY—  Washington Union Coal Company, Tono, Wash	Tono No. 1	F. A. Manley	F. A. Manley	R. B. Ober

# OPERATING COMPANIES WITH NAMES OF SUPERINTENDENTS AND FOREMEN FOR THE YEAR 1916.

NAME OF COMPANY-HOME ADDRESS	Superintendent	Mine Poreman	Outside Foreman	P. O. Address-Mine
KING COUNTY—  Carbon Coal and Clay Company Bayre, Wash.  Carbon Coal and Clay Company Bayre, Wash.  Carbon Coal and Clay Company Bayre, Wash.  Carbon Coal and Clay Company Bayre, Wash.  Denny Rection Clay and Coal Company Hore Hide. Scattle, Wash.  Denny Rection Clay and Coal Company Bayre, Wash.  Hyde Coal Company Balayer Exchange Hide. Scattle, Wash.  Denny Rection Coal Company Bayre Exchange Hide. Scattle, Wash.  Denny Rection Coal Company, Cumberland, Wash.  Coart Coal Company, Black Diamond, Wash.  Pacific Coast Coal Company, Black Diamond, Wash.  Pacific Coast Coal Company, Black Diamond, Wash.  Pacific Coast Coal Company, Palmer, Wash.  Pacific Coast Coal Company, Palmer, Wash.  Pacific Coast Coal and Coke Company, Palmer, Wash.  Proget Sound Traction, Light and Power Company, Scattle, Wash.  Independent Coal and Coke Company, White Bidg. Scattle, Wash.  Independent Coal and Coke Company, White Bidg. Scattle, Wash.  Northwestern Imp. Co., N. P. Bidg. Tacoma, Wash. (No. 5)  Peter Bagley.  Northwestern Imp. Co., N. P. Bidg. Tacoma, Wash. (No. 5)  Reilm Coal Company, South Bellingham, Wash.  Reilm Cascade Coal Company, South Bellingham, Wash.  Reilm Coal and Coke Company, South Bellingham, Wash.  Reilm Coal and Coke Company, South Bellingham, Wash.  Reilm Coal and Coke Company, Roalyn, Wash.  Resign Fuel Company, White Bidg. Scattle, Wash. (No. 1)  Wm. Shaw.  Resign Fuel Company, White Bidg. Scattle, Wash. (So. 1)  Resign Fuel Company, White Bidg. Scattle, Wash. (So. 2)  Resign Fuel Company, White Bidg. Scattle, Wash. (So. 2)  Resign Fuel Company, White Bidg. Scattle, Wash. (So. 2)  Resign Fuel Company, White Bidg. Scattle, Wash. (So. 2)  Resign Fuel Company, White Bidg. Scattle, Wash. (So. 2)  Resign Fuel Company, White Bidg. Scattle, Wash. (So. 2)  Resign Fuel Company, White Bidg. Scattle, Wash. (So. 2)  Resign Fuel Company, White Bidg. Scattle, Wash. (So. 2)  Resign Fuel Company, White Bidg. Scattle, Wash. (So. 2)  Resign Fuel Company, White Bidg. Scattle, Wash. (So. 2)  Resign Fuel Company, White Bidg.	1. J. Harris H. L. Handley H. L. Handley H. L. Handley H. L. Knothen J. E. Knothen D. Or Kettle D. C. Kettle D. Wristenen D. W. Watkins R. Wristenen J. J. Jones J. E. Kendtner J. E. Kendtner J. E. Kendtner J. E. Kendtner Hobt. Scoble, Jr. Peter Bagley Peter Bagley Arthur Hodder Wm. Mackay Wm. Mackay Wm. Shaw Wm. Shaw Wm. Shaw		John Reynolds. F. Emanuel. Henry Gunnel. Albert Jane Paul Wilker. John Morgan. Jos. Bennett. J. H. Davis. Jacob Andrus. A. Morgan. Jos. Wa Kins. Babb Lawrie. John Morgan. Jos. Bennett. John Morgan. M. A. Morgan. Jos. Morgan. Jos. Moris. W. J. Thompson. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. G. Richards. F. H. Harry Munsey. F. Harry Munsey. F. Harry Munsey.	Issaquah, Wash. Bayne, Wash. Bayne, Wash. Taylor, Wash. Renton, Wash. Cumberland, Wash. Issaquah, Wash. Issaquah, Wash. Issaquah, Wash. Issaquah, Wash. Issaquah, Wash. Issaquah, Wash. Issaquah, Wash. Renton, Wash. Renton, Wash. Renton, Wash. Reform, Wash. Resiyn, Wash. Rosiyn, Wash. Rosiyn, Wash. Rosiyn, Wash. Rosiyn, Wash. Rosiyn, Wash. Rosiyn, Wash. Rosiyn, Wash. Rosiyn, Wash. Rosiyn, Wash. Rosiyn, Wash. Rosiyn, Wash. Rosiyn, Wash. Rosiyn, Wash. Rosiyn, Wash. Rosiyn, Wash. Rosiyn, Wash. Rosiyn, Wash. Rosiyn, Wash.

Operating Companies With Names of Superintendents and Foremen for the Year 1916.—Concluded.

NAME OF COMPANY—HOME ADDRESS	Superintendent	Mine Foreman	Outside Foreman	P. O. Address-Mine
Centralla Coal Mining Co., Centralla, Wash  East Oreck Coal Company, Ladd, Wash  Fords Prairie Coal Company, Centralla, Wash  Mendota Coal and Coke Company, Centralla, Wash  Monarch Coal Company, Centralla, Wash  Sheritou Coal Company, Chentalla, Wash  Sheritou Coal Company, Chentalla, Wash  Salzer Valley Coal Company, Chentralla, Wash  Superior Coal Company, Chentralla, Wash  T. R. Campbell  T. R. Campbell	E. H. Morgan  B. H. Sheldon  Marion Howell  T. R. Campbell	John Meeko Budolph Tarrach J. E. Parkin B. H. Shedon R. A. Graham	E. H. Morgan John Mecko.  Buddopp Tarrech. T. B. Martin J. E. Parkin B. H. Sheidon. B. H. Sheidon. T. R. A. Graham.	Oentralla, Waah. Mineral, Waah. Gentralia, Waah. Mendora, Waah. Kopiah, Wash. Kopiah, Wash. Coutralia, Wash. Coutralia, Wash.
PIERCE OOUNTY— Carbon Hill Coal Company, Carbonado, Wash, (Wingate) Carbon Hill Coal Company, Carbonado, Wash, (Miler). Carbon Hill Coal Company, Carbonado, Wash, (Miler). Carbon Hill Coal Company, Carbonado, Wash, (Carbon). Carbon Hill Coal Company, Carbonado, Wash, (No. 5). Carbon Hill Coal Company, Carbonado, Wash, (No. 5). Faddie Creek Coal Mines Company, Taroma, Wash, South Wills Coal Company, Spiketon, Wash, South Wills Coal Company, Spiketon, Wash, Fabritat Mine Incorporated, Taroma, Wash, Washington Manganese, Coal and Copper Company, Taroma, Wash, Washington Manganese, Coal and Copper Company, Taroma, Wash, Washington Manganese, Coal and Copper Company, Taroma, Wash,	Pred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred Jarett Fred J	Pred Jarett Jos Fostar G. W. Love Byan Jones D. P. Davice Dave Roberta Robt. Cox Arthur Jones Janes Webb A. Tokal A. Tokal	Pred Jarett Joe Foster G. W. Love By an Jones Day a Roberts Arthur Jones Janes Webb A. Tykal A. Tykal A. Tykal Frank Angeline	Oarbonado, Wash. Carbonado, Wash. Carbonado, Wash. Carbonado, Wash. Carbonado, Wash. Wilkeson, Wash. Burnett, Wash. Burnett, Wash. Fairfax, Wash. Fairfax, Wash.
THURSTON COUNTY— Washington Union Coal Company, Tone, Wash E. S. Brooks Chas. Friend H. Wylam Tone, Wash.	E. S. Brooks	Ohas. Friend	H. Wylam	Tono, Wash.
WHATCOM COUNTY— Whatcom County Coal Co., R. F. D. No. 3, Box 29, Bellingham, Wash, Andrew Eckland  B. F. D. No. 3, Belling-	Andrew Eckland			R. F. D. No. 8, Belling- ham.

### NEW EQUIPMENT AND DEVELOPMENT WORK FOR THE YEAR 1916.

### KING COUNTY.

### Andrew Kennedy Company, Issaquah.

Has driven 800 feet of gangway in No. 9 seam and 200 feet of gangway in No. 3 seam. Has driven 850 feet of rock tunnel to overlying seams and 150 feet of rock tunnel to connect No. 3 and No. 9 seams. Has installed the following: One Lidgerwood 150-horsepower electric hoist, one eight-ton General Electric haulage motor for inside use; one 40-horsepower motor generator set; one 100-horsepower motor of compressor, one 22-horsepower motor on fan, and one two-stage centrifugal pump and 40-horsepower motor.

### Carbon Coal & Clay Company, Bayne.

Has driven 600 feet in carbon gangway, 300 feet of slope gangway, 155 feet of slope rock tunnel, 640 feet of rock tunnel in Carbon mine, and 130 feet of prospect entry. Has opened Carbon water level and is driving rock tunnel to No. 3 seam on first sub-level in Daly mine. Has installed the following: One 7x6 air compressor, one 8x8 air compressor, and two Ingersoll jackhammer air drills.

### Denny-Renton Clay & Coal Company.

At Taylor mine, has driven 500 feet of gangway. At Renton mine, has driven 869 feet of gangway.

### Durham Colliery Company, Durham.

At No. 1 mine has driven 500 feet of gangway and has installed one 3'z2' steam-driven Sirrocco blower fan.

### Hyde Coal Company, Cumberland.

Has driven about 400 feet of gangway. Commenced to operate in July of this year.

### King Coal Company, issaquah.

Has driven 289 feet of gangway on the Alvo seam, 165 feet of gangway on No. 5 lower level, and 70 feet of gangway on the Muldoon seam. Has opened No. 5 lower level.

### National Coal Company, Cumberland.

Has driven 500 feet of gangway in No. 1 left of No. 2 slope and 478 feet of gangway in No. 0 water level. Has driven 453 feet of slope on No. 1. Old No. 6 mine (old name Independent slope) has been pumped out and mine is being reopened. Practically all work done during year has been of a development nature.

### Ozark Coal Company, Cumberland.

Has driven 1,000 feet of gangway. Has driven 400 feet of gook tunnel for prospecting the underlying seams below Navy seam. Has installed the following: One six-foot open face fan, one 25-horsepower motor for fan; one 35-horsepower motor for sawmill also installed; one 30-horsepower air compressor 8x8 of Fairbanks & Morse type; one 40-horsepower motor to operate bunker machinery, and is installing one 45-horsepower electric hoist on navy seam.

### Pacific Coast Coal Company.

At No. 11 mine, has driven 10,488 feet of gangway and installed a fine coal and nut coal washery.

At Ford mine, has driven 32,838 feet of gangway and 915 feet of rock tunnel.

### Pocahontas Coal and Coke Company, Paimer.

Has driven 500 feet of gangway. Has installed the following: One Blair washer; one mine fan, Western Blower Company, and two six, ton larry cars.

Puget Sound Traction, Light & Power Company, Renton. Has driven 6,234 feet of gangway.

### KITTITAS COUNTY.

### Independent Coal & Coke Company, Cle Elum.

Has driven 745 feet of entry, 370 feet of airway, 688 feet of rock slope, 878 feet of coal slope, and 717 feet of temporary airway. The above company drove 688 feet of rock slope at thirty degrees dip to tap the workings of the old Cle Elum shaft, the slope being 9'x6'6". Installed the following: One set of Litchfield first motion engines, 24"x40"; three B. & W. water tube boilers, 550-horsepower; one generator set at power plant, 125 amperes, 440 volts, alternating current. The machine shop was equipped with lathe-pipe machine, drill presses, The tipple equipped with gravity rotary dumps capable of handling 1,200 tons daily, also bucket conveyor from tipple to bunker. The capacity of bunker is 350 tons. Coal is prepared in four sizes, viz.: Lump, egg, nut and steam. Boilers so located that boilers use nothing but steam coal. A shaking screen was installed in tipple and a revolving screen at bunkers. Two new electric Allis-Chalmers centrifugal pumps are being installed and will have a capacity of 600 gallons at 460 feet head.

### Northwestern Improvement Company.

At No. 3 mine, has driven 776 feet of entry in fifth east, 655 feet of entry in seventh east, 280 feet of entry in sixth west, 181 feet of entry in seventh west, and 455 feet of entry in the fourth east counter



Entrance to Slope, Independent Coal & Coke Co., Cle Elum, Wash.



New Plant, Independent Coal & Coke Co., Cle Elum, Wash.



1 1 on the hill (total 2,347 feet). Has driven 305 feet of main slope, 324 feet of slope manway on east side, and 172 feet of manway on west side; has driven 190 feet of return airway on the east side of slope and 324 feet on the west side. Has opened the big seam overlying the Roslyn as follows: Haulage rock tunnel, 180 feet; slope, 213 feet; slope manway, 183 feet; water level entry, east, 70 feet, and water level entry, west, 117 feet. Progress in development of Roslyn seam was impeded by the faulted and otherwise abnormal condition of the formation traversed by the main slope, fifth and seventh east levels.

At No. 5 mine, has driven 377 feet of fifth east dip entry, 176 feet of entry in first level off fifth east dip entry, 179 feet of seventh east counter No. 2, 175 feet of seventh east counter No. 3, 984 feet of 7½ east entry, 124 feet of 7½ east counter, 866 feet of eighth east entry, 620 feet of eighth east counter No. 1, 207 feet of eighth east counter No. 2, 1,122 feet of seventh west entry, 506 feet of seventh west counter, 483 feet of water level entry (east), and 80 feet of boiler fuel entry, a total of 5,899 feet. The haulage tunnel was regraded to drain water. Has installed one set of boilers, two new pumps, and new tipple, and dump house has been alterated.

At No. 6 mine, has driven 477 feet of rope entry (engine plane), 536 feet landing for rope haulage division, 864 feet of entry in fourth east, 350 feet of entry in eighth east, 1,641 feet of entry in ninth east, and 674 feet of entry in second west, a total of 4,542 feet. Has driven 228 feet of auxiliary slope in seventh east. A wooden trestle 325 feet long and averaging 45 feet in height was built across ravine to facilitate the extension of the fourth east level.

At No. 7 mine, has driven 582 feet of entry in the seventh east, 734 feet of entry in the 4½ west, 486 feet of entry in 4½ west No. 2, 31 feet in fifth west entry, 490 feet of entry in sixth west, and 2,077 feet of entry in eighth west, a total of 4,400 feet. Has driven 695 feet of slope manway and 755 feet of slope return airway.

At No. 7 extension, has driven 266 feet of entry in first east, 206 feet of entry in second east, 359 feet of entry in first west, and 80 feet of entry in second west, a total of 911 feet. Has driven 982 feet of haulage plane and 987 feet of haulage plane manway. Has installed one four-foot disc fan driven by 10-horsepower General Electric motor, 500 volts, direct current, and is belt-driven; one shopmade electric hoist, 11-horsepower, 500 volts, and one shop-made electric hoist, 17-horsepower, 500 volts.

At No. 8 mine, has driven 1,030 feet of rock tunnel toward seam and is to be used for haulage purposes. Has built 1,300 feet of wooden trestle for counterbalanced double track on line of outside plane, average height 30 feet, maximum height 65 feet; 4,200 feet of roadway for double track has been graded on line of plane; and 7,200 feet

of single track from No. 2 tipple to mouth of tunnel has been laid on the line of the plane.

At the Cle Elum mine, has driven 510 feet of auxiliary slope in the seventh west, No. 3 extension.

### Roslyn Coal and Coke Company, Roslyn.

Has driven 486 feet of entry and 40 feet of slope. Has installed one gas pump.

### Rosiyn Cascade Coal Company, Rosiyn.

Has driven 394 feet of rope entry, 564 feet of entry in second east, 167 feet of entry in third east, and 108 feet of entry in third west, in No. 1 mine.

At No. 2 mine, has driven 273 feet of slope and 797 feet of entry.

### Roslyn Fuel Company, Beekman.

At No. 1 mine, has installed one 400-gallon-per-minute, 500-foot head centrifugal pump, direct connection to 75-horsepower alternating current motor.

At No. 2 mine, has driven 300 feet of entry and 300 feet of airway. Has installed one 400-gallon, 550-foot head centrifugal pump, direct connection to 100-horsepower alternating current motor.

At Summit mine, has driven 300 feet of entry, 200 feet of slope, and 200 feet of airway.

### LEWIS COUNTY.

Fords Prairie Coal Company, Centralia.

Has driven 450 feet of slope.

### Mendota Coal & Coke Company, Mendota.

Has driven 460 feet of entry and 210 feet of slope.

Fan has been removed from the north to the south side of the slope.

### Sheldon Coal Company, Chehalis.

Has constructed a new bunker.

### Superior Goal Company, Chehalis.

Has driven 175 feet of gangway. Has timbered 260 feet of the slope. Aircourse has been cleaned and timbering repaired, and portions of the gangway retimbered.

### PIERCE COUNTY.

### Carbon Hill Coal Company, Carbonado.

At the Douty mine, has driven 440 feet of gangway in coal and 50 feet of same in rock. Has installed 2,300 feet of endless rope haul, electrically driven.

At the Wingate mine, has driven 503 feet of gangway on the fourth level; has driven 250 feet of gangway downstream and 138 feet of gangway upstream on the fifth level. A rock tunnel has been driven 385 feet on the fourth level. Has installed one centrifugal pump.

At No. 5 mine, has driven 650 feet of slope below water level and 100 feet above water level. Has installed one small electric-driven fan, one small electric-driven hoist, one small electric pump and a small air-driven pump.

At Carbon No. 6 (old No. 9), has driven 650 feet of gangway.

At the Miller mine, has driven 550 feet of rock gangway.

At the Electric Slope mine, has reopened 400 feet of old north 4 gangway.

Gale Creek Coal Mines Company, Wilkeson.

Has driven 1,400 feet of gangway.

Pacific Coast Coal Company, Burnett.

Has driven 8,847 feet of gangway and 2,577 feet of rock tunnel.

### South Willis Coal Company.

At the Spiketon mine, has driven 600 feet of gangway south and 300 feet north on No. 10 seam.

At the South Willis mine, has reopened 1,000 feet of old gangway on the Champion seam.

The Fairfax Mine, inc., Fairfax.

Has driven 1,100 feet of gangway, 1,700 feet of gangway as a prospect, and 3,465 feet of rock tunnel.

Wilkeson Coal and Coke Company, Wilkeson.

Has driven 1,500 feet of gangway and 760 feet of slope.

### THURSTON COUNTY.

Washington Union Coal Company, Tono.

Has driven 4,038 feet of entry and 3,126 feet of airway.

TABLE SHOWING NAMES OF COMPANIES, POSTOFFICE ADDRESS, SHIPPING FACILITIES AND PRINCIPAL MARKET.

List of Operating Companies	Postoffice Address	Spi	Principal Market
Andrew Kennedy		Northern Pacific Railway	Washington Washington
Carbon Coal Conjugacy	Carbonado, Washington	Northern Pacific Rallway	1
Centralla Coal Mining Company Denny-Renton Clay and Coal Company	Centralia, Washington, Hoge Building, Seattle, Wash.	Eastern R. R. & Lumber Co.	washington and Oregon- Factory use
East Creek Coal CompanyFords Prairie Coal Company	Perkins Building, Tacoma, Wash. Centralia, Washington	Tacoma Eastern R. R. Northern Pacific Railway	Washington Washington
Gale Creek Coal Mines Company	Tacoma, Washington	Northern Pacific Railway	Washington and British Col. Washington
Independent Coal and Coke Company	White Building, Seattle, Wash		Washington Priget Sound points
Mendota Coal and Coke Company	Issaquan, Washington	Centralia Eastern Ry. and N. P. Ry.	Washington and Oregon
Monarch Coal Company	Centralia, Washington Seattle	N. P. R. R. and C., M. & St. P. R. R	washington and Oregon Washington
Ozark Coal Mining Company		Northern Pacific Railway	Washington Seattle
Pocahontas Coal and Coke Company	Palmer, Washington	Northern Pacific Rallway.	Washington
Puget Sound Traction, Light & Power Co	Seattle, Washington,	P. S. F. R. R. and N. P. R. R. Northern Pacific Rallway	Puget Sound cities Railroads only
Roslyn Cascade Coul Company	Washington	Northern Pacific Railway	Eastern Washington
Roslyn Coal and Coke Company	Koslyn, Washington White Building, Seattle, Wash	Northern Pacific Rallway	
Salzer Valley Coal Company	Centralla, Washington	By teams Twin (ity Light & Power Co.	Local Local
Superior Coal Company		Northern Parific Rallway	Portland, Oregon
The Fairfax Mine Incorporated		Northern Pacific Rallway	Tucoma, Washington
washington Manganese Coal & Copper Co. Washington Union Coal Company	Tocoma, Washington	Northern Further Railway  OW. R. R. & N. Co.  Northern Pacific Ballway	Washington and Oregon
Wilkeron Coal and Coke Company	Tacoma, Washington.	Northern Pacific Rallway	Washington

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Fieldner, A. C., and Others.—Analyses of Coals. Bulletin 85, 1914. Lord and Others.—Analyses of Coals. Bulletin 22, Parts I and II. Address, Director, Bureau of Mines, Washington, D. C.

### Reports of the State inspectors of Coal Mines.

Reports of State Inspectors of Coal Mines of Washington, 1887-1916.

Reports prior to September 30, 1906, are not available, but later reports can be obtained from the State Mine Inspector, Alaska Bldg., Seattle, Wash., or the State Librarian, Olympia, Wash.

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Mount Stuart Folio; Seattle Folio; Tacoma Folio; Snoqualmie Folio; and other folios pertinent to Washington.

Smith, George Otis.—Coal Fields of the Pacific Coast, Twentysecond Annual Report, Part III, pp. 473, 513, 1902.

Address, Director, United States Geological Survey, Washington, D. C.

### Washington Geological Survey Publications.

Volume 2.—Annual Report for 1902. Part 1, The Building and Ornamental Stones of Washington, by S. Shedd; part 2, The Coal Deposits of Washington, by Henry Landes and C. A. Ruddy. Postage 20 cents.

Bulletin 3.—The Coal Fields of King County, by George W. Evans. Bound in cloth, price 75 cents.

Bulletin 9.—The Coal Fields of Kittitas County, by E. J. Saunders, Bound in cloth, price 60 cents; paper cover, price 40 cents.

Bulletin 10.—The Coal Fields of Pierce County, by Joseph Daniels. Bound in cloth, price 60 cents: paper cover, price 40 cents. Bulletins.—The Mineral Resources of Washington, with statistics, by Henry Landes.

Address, State Librarian, Olympia, Wash.

### Others.

Tenth Census of the United States, Volume XV.

### COAL ANALYSES

The coal analyses accompanying this report are those made by the United States Geological Survey during the years 1909-1910 in cooperation with the coal division of the Washington Geological Survey and are taken from the United States Geological Survey Bulletin No. 474—Coals of the State of Washington.

The samples were gathered principally by Mr. E. E. Smith in the regular United States Geological Survey manner, crushed either in the mine or immediately after coming to the surface, then placed in a tin receptacle and sealed to exclude loss of moisture by air-drying.

Four sets of analyses were made, namely: (a) Coal as received; (b) coal air-dried; (c) coal moisture free; (d) percentage referred to coal moisture and ash free. The analyses given in this report are those on an air-dried basis, and by adding the percentage of air-drying loss (which is given in the table) to the percentage of moisture given, the moisture in the original coal can be determined within one per cent.

Since all the coal beds were sampled in the same manner, and the analyses and calorific values were determined in the same uniform manner, the analyses herein given give a fair comparison of the coal beds of the state.



## RESULTS OF COAL ANALYSES.

OLALLAM COUNTY.

			Air			Б	TEMIO,	VI A	CHEMICAL ANALYSIS	to				
COAL BED SAMPLED	Labo	ness of	f loss of		Proximate	nate	-			Ultimate			Value	8
	No.	sam- pled	sample as re- ceived	Mois-	Vol'tile matter	Fixed	Ash	Sul- pbur	Hydro-	Osr. Don	Nitro-	Oxy.	Oalo- ries	B. T.
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No. 3 lower bn., Ford mine.	3 5 6	oó c ⊷i⊶		8.8	88	98	8.16	\$ 4	88	8	1.18	18.8	3	11540
ord	2916	<i>ì</i> − <b>→</b>		8.48	88.58	16.74	9.07	7	33.0	64.19	1.47	19.88	6242	11236
Muldoon bed, Ford mine	9368	;;;;	?! - !~ !	8.8	84.88	45.58 3.58	13.73	8.5	 2	88.8	1.45	17.80	200	10735
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Bagley No. 2 upper bn., Bagley mine	_	ò	9.4	8.	41.87	88.56	14.68	8	5.41	8.09	1.25	14.02	6187	11187
Bagley No. 2 lower bn., Bagley mine				5.21	89.74	42.88	12.07	8,	5.8	8 3	1.81	17.80	5	311162
No. 6 bed, Superior infine.		, i.		88	3.8	\$ \$	8.8	35	F 95	9	1 17	10.0	922	1080
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bed, Issaqua	8643	4,		80.0	31.43	29.62	12.15	1.20	5.27	50.51	1.17	8	2265	1066
No. 1 bed, Grand Ridge mine.	¥	i- ò		8.70	83.89	<b>\$</b> .40	12.40	83.	5.42	60.42	1.18	8.8	9	10690
No. 2 Ded, Grand Ridge mine	35 35 35	<b>*</b>	3.9	10.88	88.6	87.56	18.40	<b>3</b> .	:	:	:	:	<b>26.78</b>	29
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	ş	9 2	8 8		5.16	5.46	5.10	2.0	5.21	2.30	88	5.73	-	5.85	5.57	5.50	5.16	5.24	5.28	8.7	5.67	5.85	5.00	:	5.05	5.12	5.24	5.05	5.45	5.10	:	:	<b>*</b>	:	:	4.7	8.	:	4.58		<b>*</b>
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8	3	\$ <b>\$</b>	2	\$	45.10	45.27	£.3	<del>2</del> 0.68	41.08	3	47.52	26.7	17.81	0.70	30. 89.	50.21	89. 4-	40.87	51.66	45.41	3. 3.	52.76	50.16	38.57	33.06	43.86	18.70	48.33	49.60	6 6	<del>8</del> .	9 3 3 3	25.05	42.19	46.02	<del>9</del> .29	£6.33	88 88	87.74	88	42.33
8	2	. ×	3,2	8	36.68	88.58	37.17	36.42	88.88	38.38	39.68	41.51	. W. T	36.68	36.00	ಕ.=	40.14	40.10	41.36	37.88	43.20	<del>1</del> 0.40	35.96	3. 3.	90.40	15. 16.	35.25	88. 88.	35.79	35.13	33.75	37.38	32.73	80.80	33.1	<b>3</b> 8.	88.88	27.15	23.5 24.5 25.5 26.5 26.5 26.5 26.5 26.5 26.5 26	21.23	3.
9.6	ž	3 2	25	8.06	2.60	3	2.3	9.0	5.5	9	.S.	13	Ξ.	9.6	8:	2.25	٠; 9	.; =:	5.70	1.95	2.	8.3	6. F.	5.53	÷.	ë. <b>∓</b>	88	8:	 	8. 8.	Ç.	2.48	86.	2.70	98.	2.34	6.	2.5	64 65 65 65 65 65 65 65 65 65 65 65 65 65	77.0	2.10
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S ON Toleran	Toulor No. 4	Taylor No. 5.	Taylor No. 6.	:	No. 3 bed, No. 1, Ravensdale		o. 1, Rave	No. 5 upper Dn., No. 1 mine, Kavensdale.	No. 5 lower bn., No. 1 mine, Ravenadale	o. 1 mine,	No. 5 bed, No. 1 mine, Ravenadale	o. 1 mine,	Mckay mine,	Mckay mine,	Menay mine, Kaven	Morgan Sip., Black	Opper Mckny bed, Morgan Sip., Bik. D'nd	Upper Mckay bed, No. 14 mine, Sik. D'nd	Mckay bed, No. 14 mine, Black Diamond	lekay bed, Lawson mine	Mckay bed, Lawson mine, Black Diamond	Mckay bed, surface outerop, Franklin.	Gem bed, Gem mine, Franklin.	Ded -, Nummer mine	Kummer	Harries Ded, Rose Marshall mine	ટું. ટું.	Old No. 2, Occidental mine	No 9 October	Now mine had Ooddastel min-	New mine bed, Octidental mine.	ž	hed Independ	hed Sunset mind	No 2 bed Gunget mine	, red	No. 5 Ded, Sunset mine.	No. 1 Dett., Sunset mille	Upper part lower hence Newel mine	Top bench, Naval mine	

(1) Composite of 9416, 9417, 9418. (2) Composite of 9476, 9477.

RESULTS OF COAL ANALYSES.—Continued.

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COAL BED SAMPLED	Labo-	ness of	loss of		Proximate	ate.	-		D	Ultimate			Value	e
	No.	part sam- pled	as re- ceived	Mols- ture	Vol'tile Fixed matter Carbon	Fixed	Ash	Sul- phur	Hydro- gen	Oar- bon	Nitro- gen	Oxy-	Calo- ries	B. T. U.
Lower bench, lower bed, Naval mine.  No. 1 bed. Eureka mine.  No. 2 bed. Bayne mine.  No. 3 bed. Bayne mine.  No. 5 bed. Bayne mine.  No. 5 bed. Bayne mine.  No. 5 bed. Bayne mine.  No. 1 bed. Carbon mine.  No. 1 bed. Carbon mine.  Postulenta bed. Bit Six mine.  Cipter bench. Hudson Prespect.  Prospect at Brinston.  Prospect at Brinston.  Prospect at Preston.  No. 8 bed. Niblock.  No. 6 bed. Niblock.  No. 6 bed. Niblock.  No. 6 bed. Niblock.	9898 9809 9110 9110 98775 9489 9489 9778 9778 9711 10087 10087	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9/4/2000 00 00 00 00 00 00 00 00 00 00 00 00	2. 2.16 3. 3. 1.80 3. 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.86 3. 1.8	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	表表表表表表现所認識的 [2] [2] [2] [3] [4] [5] [5] [5] [6] [6] [6] [6] [6] [6] [6] [6] [6] [6	361882 6 8 11 6 8 8 13 8 8 15 15 15 15 15 15 15 15 15 15 15 15 15	86488866262625 2000 2000 2000 2000 2000 2000 2	7.4.4.4. 7.7. 4.4. 2.2.5.2.4. 2.9. 5. 28.	88822288	5.11.82.82.82.82.82.82.83.83.83.83.83.83.83.83.83.83.83.83.83.	11.45 10.77 10.73 10.73 11.45 10.88 11.69 10.88 11.69 10.69	6661 6343 6244 6244 6244 6244 6310 5310 5310 5310 5310 5310 5310 5310 5	12580 11417 11239 111239 111239 112976 112976 112976 113140 1130 11167 11167
Roelyn bed, No. 2 mine, Roelyn. Roelyn bed, No. 2 extension, Cle Elum. Roelyn bed, No. 3 extension, Cle Elum. Roelyn bed, No. 3 mine, Roelyn. Roelyn bed, No. 4 mine, Roelyn. Roelyn bed, No. 5 mine, Roelyn. Roelyn bed, No. 5 mine, Roelyn. Roelyn bed, No. 5 mine, Roelyn. Roelyn bed, No. 5 mine, Roelyn. Roelyn bed, No. 5 mine, Roelyn.	2222222 602222222	कं कंग्यंच्यं स्वक्रम्म्	22.2.4.4.2.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6	2.5.5.5.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.	88888888 8888888	######################################	55 55 55 55 55 55 55 55 55 55 55 55 55	24428838	20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 2	88.2 912.8	3.58	14.06 15.28 15.28	9698	11761

10412 (11) 1.87 13.13 67.65 17.86 47 87 71.82 17.76 17.86 1.75 4.41 6890 12384 13084 9400 (12) 1.9 2.28 83.42 68.76 10.54 4.6 5.22 72.89 1.66 9.30 7241 13084 12507

(1) Sample from car. (2) Composite of 9410, 9411, 9412, 9413, 9414, 9415. (3) Composite of 9445, 9446, 9446, 9447. (4) Composite of 9422, 9443, 9444. (5) Composite of 9433, 9434, 9436. (6) Composite of 9434, 9436. (6) Composite of 9437, 9438. (8) Composite of 9437, 9436. (12) Composite of 9439, 9440, 9441. (10) Composite of 9439, 9420, 9421. (11) Composite of 9439, 9430, 9430, 9431. (12) Composite of 9439, 9430, 9431. (13) Composite of 9439, 9430, 9431. (13) Composite of 9439, 9430.

### LEWIS COUNTY.

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bed, Supe	2 <b>76</b>	4	÷	14.3	15.02	3.4	88.	12.74	88	2.48	51.30	88.	8.3	<b>\$</b>	
Sheldon mine bed	8968	ъ	ò	15.2	17.81	\$0.08	88.88	6.78	8	6.24	58.65	8:1	81.65	2186	<b>8</b> 8
Mendota mine coal bed	10823	۵	1	9.6	10.67	37.43	87.92	18.96	1.80	2.4	26.83	88	88.	3	2
Mendota mine coal bed	10824	۵	÷	11.5	10.23	87.81	88.08	18.91	1.45	5.61	56.27	88.	88 88	5455	8819
Potlatch bed, Centralla Coal Co	2116	ì-		14.9	19.88	88.58	27.72	88.6	2.7	2.80	98 98 98	8.	22.73	2540	<b>3</b>
Centralla Coal Co	į	حز	à	15.7	16.96	41.12	88.	9.10	2.10	5.87	58.71	88	28.32	88	9425
Twin City mine coal bed.	2006	á	ào	19.3	14.01	89.87	25.25	12.07	<b>ಪ</b>	5.47	25 28	8.	\$. 83	92	1908
Union Coal Co. bed.,	968	90	1,,	19.1	16.13	88.88	38.75	10.73	88.					98	88 88
No. 2 bed, Ladd mine	23 28 30 30	90	è	2:3	1.42	27.88	58.11	27.71	83.	2.4	<b>8</b> 9	1.86	15.0	E	<u> </u>
No. 3 upper bench, Ladd mine	1886	'n		8.8	8.8	85.83	88.88	22.15	88	:				200	10875
No. 8 lower bench, Ladd mine	0886 6	ò	~ %	7:7	2.88	86.98	88.58	22.58	18					1687	10673
No. 4 bed, Ladd mine	28	*	1,,	6.	8.56	28.28	88.38	25.88	8			:		2416	<b>97</b>
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RESULTS OF COAL ANALYSES.—Continued.
PIERGE COUNTY.

			Air			5	HEMIC.	AL AN	CHEMICAL ANALYSIS	_				
COAL BED SAMPLED	Labo	ness of	orying loss of		Proximate	nate			n	Ultimate			Value	æ
	ratory No.	part san-	as re-	Mois-	Vol'tile Fixed	Fixed	Ash	Sul-	Hydro-	Q r.	Nitro-	Oxy-	Calo	B. T.
		Total I	Celver				1						3	<b>i</b>
Black Carbon bed. Black Carbon mine	2686	Š0	2.7	2.45	83.73	3	28.80	.55	4.58	28.93	1.75	10.60	5962	10732
7tts	88		4.7	8.2	88	42.58	21.42	.42	4.73	60.01	1.73	11.69	805	10780
burg mine	<b>8</b>	`* `*	2.3	8	33.45	43.16	8.	28	4.73	89.	.88	11.48	6167	110
Lady Wellington bed, Pittsburg mine	2696	4, 11,"	3.5	8.28	8.8	48.64	19.14	34.	4.78	86. 88.	5.1	12.98	6125	11025
eft mine	<b>5</b> 8	6 6 6 6	→ 0	8.5	8 8 8 8	88.45 64.55	8,	ان ان	5. 58 5. 58	5.5	9.00	F. 6	7725	13906
Upper benen Ao, a (2) bed, Burnet mile	0 0	•	o -	5.	27.51	3	9.60	8	3.5	3	9	3 6	8	0
Surgett hinp, Burnett mine	3 8 8 8 8			8 2	26.25	÷ 9	200	¥ &	2 2	3 8	88	2 2	1887	0/2
ž	0166	÷ %	-	7	28	2	2	8	20	8	8	88	7579	13645
Gale	9006	š š	÷.%	2.16	89.	28	₹ 8	88	5.51	73.75	88.	9.30	7480	13482
	6066 -		÷;	7.	88.88	56.44	6.18	88	2.49	18.91	8.6	8.59	288	14085
~	1986	ý ř	61	2.47	30.48	82.88	29.17	1.18	4.1	83	1.78	10.00	27.28	1976
Wilkeson mine	9	<b>`</b>	8.50	83	27.86	58.38	12.86	94.	16.7	74.68	2.32	2.4	7418	13352
upper part, Wilkeson	8	ib i- i	ei e	20.	18.92	2.5	24.08	7	÷	:	:	:	6274	11298
lower part,		, N	, i	.78	19.68	8.8	18.51	8	<b>4</b>	2	2.00	4.22	ş	12672
upper part, wilkeson	200			8	28.13	62.27	8.67	<b>\$</b>	5.18	38.38	2.08	22.20	3 <del>4</del> 2	14216
	<b>6</b> 8	+ 1	51.5	1.15	8	25.98	18.06	9	-:	:	:	:	6802	12406
No. 3 bed, wilkeson mine			÷.	8	22.38	æ.	15.68	4	23.	88	2.80	4.78	146	19852
		9	<b>.</b>	8	27.38	8	8	€.	4.78	.38	1.28	4.39	2692	13848
Demonstration of the Trule of the		:	3.0	1.16	24.68	86.5	98	\$	8.	33.33	2.10	3.	2	1495
COMI, SOUTH WILL	200			20 1	8	44.25	3	\$	50.	83.08	38	<b>3</b>	6073	1000
Guell melne	8			6.10	30.00	10.14	20.00	2 2	*.78	68.40	<b>8</b> :	×.	2	9
No 1 bed N Carbonado mina	06730	ı è	• •	9 2	3.8	2	18.40	į.	: 8			:	E 6	777
1	3 2			ē :	25.26	4.5	01.0	2:	0	200	3.0	8.	8	12470
Deal, Conting, In.	200		9 6	1.0	27.88	62.20	15.83	<b>?</b> !	56.	21	2.08	6.74	60	200
coaling, M. Carbonado		ó c	9 9	2.8	S 5	3 5	8.8	ج. ج	B 8	5.5	8.8	8.8	8	13120
ord to Comboned a	_	*	٠ • •	8	200	81	8	<b>?</b> !		8	3;	9.08	è	1875
Wingate bad Clerkonade No. 1 mine.	8 8		<u>.</u>	2.7	20.23	<b>8</b> .5	2.9	5.	2	81	2.7	86 S		188
No. 3 (2) had Rithart mina		, i	0.0	8.8	8.9	8 S	2 5	38	2,2	36	3.5	2. G	8 8	18/40
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(1) Wingate unwashed coal after screening over 3-inch bar screen.

## THURSTON COUNTY.

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# STATE OF WASHINGTON DEPARTMENT OF STATE

# SECOND BIENNIAL REPORT

# **ELECTION DIVISION**



I. M. HOWELL, Secretary of State

OLYMPIA:

FRANK M. LAMBORN PUBLIC PRINTER

1917

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#### LETTER OF TRANSMITTAL.

STATE OF WASHINGTON.

OFFICE OF THE SECRETARY OF STATE.

ELECTION DIVISION.

OLYMPIA, WASH., December 31, 1916.

Honorable Ernest Lister, Governor.

SIR: I have the honor to submit herewith to you, and through you to the Honorable State Legislature, a report of the Election Division of this department for the biennial period ending December 31, 1916.

Respectfully submitted,

I. M. HOWELL,

Secretary of State.



#### INTRODUCTION.

The multiplicity of urgent requests for detailed information contained in this report made necessary its publication. It was therefore thought wise to effect considerable saving by compiling all this information into one comprehensive pamphlet in the form of a report.

In compliance with section 4828, Rem. & Bal. Code, a canvassing board consisting of the State Auditor, State Treasurer and the Secretary of State met on October 31, 1916, and canvassed the returns of the primary election held on September 12, 1916, with the results as shown elsewhere in this report.

On December 12, 1916, the 39th county filed its certificate of the canvass of the general election, held on November 7, 1916. This department proceeded at once to check, compare and estimate the vote shown on the returns filed by the various County Auditors and on December 22, 1916, filed with His Excellency, the Governor, a copy of said abstract in accordance with section 4937 of Rem. & Bal. Code, as shown elsewhere in this report.

The Initiative, Referendum and Recall provisions became a part of our State Constitution by vote of the people at the general election on November 5, 1912.

The 1913 Legislature provided the means for carrying the initiative law into effect in Chapter 138 of the Session Laws of 1913. Chapter 137 of the 1913 Session Laws provided \$300,000 to defray the expenses of measures presented under any of the provisions of the Initiative, Referendum or Recall. There was turned back to the state treasury \$250,005.24 of the amount appropriated.

#### INITIATIVE.

Under the provisions of Chapter 138, Laws of 1913, recited in the First Biennial Report of this Division, there were filed eighteen initiative measures out of which numbers 3, 6, 7, 8,

9, 10 and 13 found places on the ballot and numbers 3 and 8 prevailed at the general election held November 3, 1914. These measures were commonly known as "state-wide prohibition" and "abolishing employment offices" and are now effectively in operation.

During the current biennium there has been filed initiative measures numbered 19, 20, 21, 22, 23, 24, 25, 26, 27, 28 and 29, out of which number only 24, common known as the "breweries measure," obtained sufficient signatures to warrant its checking under the provisions of the law.

Ten days were required for checking the petition. It was found to contain 69,784 signatures as a gross total. The deductions were: Uninitialed, 17,774; duplications, 650, leaving 51,360 apparently legal signers. The names and addresses of the uninitialed and duplicate signers were promptly certified to the prosecuting attorney of the county wherein the same were resident.

Initiative measure No. 18, known as the "hotelmen's bill," was initiated to the Legislature at its 1915 session, but as no action was taken by that body the measure automatically was placed upon the ballot.

#### REFERENDUM.

The referendum was invoked on seven laws enacted by the 1915 Legislature, known as chapters 54, 55, 52, 181, 178, 46 and 49. These measures were numbered serially and respectively 3, 4, 5, 6, 7, 8 and 9. Petitions were filed on June 9, 1915, and were found to contain the requisite number of signatures. They were detached in the presence of the Hon. H. O. Fishback, Insurance Commissioner, on June 10, 1915, and bound into volumes as required by the law.

Checking was commenced on June 14, and finished on July 17, 1915. All petitions were found to have a sufficient number of signatures and properly entitled to places on the ballot.

Prosecuting attorneys were again promptly furnished with lists of uninitialed and duplicated signers resident in their re-

spective counties in accordance with the provisions of section 16, chapter 138, Laws of 1913.

The 1915 Legislature framed one amendment to the Constitution relating to the qualification of voters in districts seeking to create an indebtedness.

All initiative and referendum measures and the proposed amendment to the Constitution were defeated at the polls.

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# LIST

OF

# Congressional, State and County Officers

OF THE

STATE OF WASHINGTON 1917



## CONGRESSIONAL, STATE AND COUNTY OFFICERS

#### CONGRESSIONAL

CONGRESSIONAL.				
U. S. Senators				
STATE OFFICERS.				
Governor Ernest Lister Olympia Secretary to the Governor Irvin W. Ziegaus Olympia Lieutenant Governor Louis F. Hart. Tacoma Secretary of State. I. M. Howell. Olympia Assistant Secretary of State. J. Grant Hinkle. Olympia Assistant Secretary of State. J. Grant Hinkle. Olympia Additor C. W. Clausen. Olympia Assistant State Auditor. F. P. Jameson. Olympia Deputy State Auditor. E. F. Jones. Olympia Deputy State Treasurer W. W. Sherman. Olympia Deputy State Treasurer. J. L. Glazebrook. Olympia Attorney General W. V. Tanner. Olympia Attorney General R. E. Campbell. Olympia Assistant Attorney General Hance H. Cleland. Olympia Assistant Attorney General Howard Waterman. Olympia Commissioner of Public Lands. Clark V. Savidge. Olympia Assistant Commissioner of Public Lands. W. W. Hopkins. Olympia Insurance Commissioner M. O. Fishback. Olympia Deputy Insurance Department. F. T. Houghton. Olympia Assit Supt. Public Instruction. Mrs. Josephine Corliss Preston Olympia Assistant Adjutant General Maurice Thompson. Seattle Assistant Adjutant General Frank P. Liggett. Seattle Assistant Commissioner E. F. Benson. Olympia Assistant Commissioner E. F. Benson. Olympia Assistant Commissioner E. F. Benson. Olympia Assistant Commissioner E. F. Fenson. Olympia Assistant Commissioner, Division of Foods, Feeds, Fertilizers, Drugs, and Oils (including inspection of Bakeries) J. J. Higgins. Olympia Chalester Commissioner, Division of Bakeries) J. J. Higgins. Olympia				
Assistant Commissioner, Division of HorticultureT. O. MorrisonOlympia				
State Fair, Frank Meredith, Secretary, North Yakima				

State Labor Commissioner	C. H. YoungerOlympia
	J. M. HittOlympia
Assistant State Librarian	Maud R. MacphersonOlympia
	C. W. ShafferOlympia
	L. R. LounsburyOlympia
	Mrs. Lou G. DivenOlympia
State Fish Commissioner and Chief	
State Game Warden	Leslie H. DarwinSeattle
	R. B. WalesSpokane
	James BagleySeattle
Public Printer	Frank M. LambornOlympia
	W. E. HansonOlympia
	J. F. Myhan
	F. E. PapeOlympia
	James AllenOlympia
	Henry LandesSeattle
State Chemists	Geo. A. OlsonPullman
·	Chas. W. JohnsonSeattle
State Commissioner of Health	Dr. T. D. TuttleSeattle
State Fiscal Agency	The Equitable Trust Company of
	AmericaNew York
State Superintendent of Weights and	I. M. Howell, Ex-officioOlympia
Deputy Superintendent of Weights	II. III III DO ONIO III III III III III III III III I
	Bert S. SnyderNorth Yakima
	W. B. NewcombOlympia
	I. M. Howell, Ex-officioOlympia
Deputy Commissioner of Statistics	Harry F. GilesOlympia
	C. S. ReinhartOlympia
Superintendent Election District	
	Charles B. Wood Olympia
Superintendent Liection Division	Charles B. WoodOlympia
	Charles B. WoodOlympia  OS AND COMMISSIONS.
EX-OFFICIO BOARI	
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Oyster Commission	Governor Olympia Land Commissioner Olympia Fish Commissioner Seattle
Library Commission	.Governor
Highway Commission	Governor
Board of Fish Commissioners	.Governor
	Governor Olympia Secretary of State Olympia State Treasurer Olympia W. P. Bonney Tacoma
STATE BOARDS	AND COMMISSIONS.
Agricultural Advisory Board	.Ernest Lister       Olympia         E. E. Flood       Spokane         Dr. Ira D. Cardiff       Pullman         Dr. Granville Lowther       North Yakima         E. F. Benson       Olympia
·	.Wm. McAdam       Seattle         Ole S. Larson       Seattle         George Shedden       Tacoma         Rodney D. White       Seattle         Alfred Lister       Tacoma
	.H. C. PickeringTacoma .Fred McGonagleSeattle Hugh W. McElroySpokane
	.W. H. Cochran       Olympia         G. Dowe McQuesten       Olympia         T. E. Skaggs       Olympia         .O. A. Torgeson       Olympia
	.Dr. Chas. Howard LibbyNorth Yakima         Dr. Rodney L. HearneSeattle         Dr. J. W. RawlingsTacoma         Dr. Pascal W. YearsleySpokane         .Dr. S. L. MoakMontesano
Secretary	State Supt. Pub. InstructionOlympia President University of WashSeattle President Wash. State CollegePullman G. W. NashBellingham C. R. Frazier (City Supt.)Everett H. M. HartSpokane L. L. SellersWaterville Mrs. Addie E. DickinsonOlympia
	.W. B. Buckley
Es-officio Secretary	.Dr. T. D. TuttleSeattle

	.Dr. D. M. Stone       Seattle         Dr. A. J. Nelson       Seattle         Dr. James A. MacLachlan       Dayton         Dr. J. Tilton       Toppenish         Dr. Royal A. Gove       Tacoma         Dr. J. E. Hodgson       Spokane         Dr. Elmer D. Olmsted       Spokane         Dr. H. F. Morse       Wenatchee         Dr. C. N. Suttner       Walla Walla
	. Wilson Johnston Colfax Elmer E. Heg Seattle Frederick R. Hedges Everett Mrs. Marion M. McCreedie Sunnyside E. F. Benson Olympia .Dr. T. D. Tuttle Seattle
- ·	.I. M. Radabaugh Spokane Charles G. Holcomb Seattle Maude Coles Whitlock Tacoma
•	.C. Osseward         Seattle           F. D. Marr.         Tacoma           G. C. Norton         Tacoma           V. T. McCroskey         Colfax           D. B. Garrison         Connell
Secretary	.C. W. Clausen, Ex-officio ChiefOlympia Al Helander
Assistant State Labor Commissioner	. Miss Lucia A. Crangle
Forest Commission	Clark V. Savidge Olympia Ed. English Mt. Vernon Pat McCoy Seattle W. W. Emery Napavine Frank B. Cole Tacoma F. E. Pape Olympia
	.J. M. WilsonOlympia Forrest I. GillOlympia
Secretary	.P. GilbertOlympia
Library Advisory Board	.J. B. Kaiser         .Tacoma           Mrs. Henry McCleary         .McCleary           Mrs. O. K. Williamson         .Prosser           Mrs. Sarah McMillan Patton         .Hoquiam
·	Anna Philips (Pres.)         Tacoma           Helen K. Lester         Spokane           May S. Loomis         Seattle           Miss C. A. Hancock         Spokane           Ella A. Wilkinson         Bellingham
	_

State Board of Park Commissioners	Ernest Lister         Olympia           Clark V. Savidge         Olympia           C. W. Clausen         Olympia           W. W. Sherman         Olympia		
State Capitol Commission	Ernest Lister         Olympia           C. W. Ciausen         Olympia           Mark E. Reed         Shelton           A. H. Chambers         Olympia           Morits Thomsen         Seattle           C. R. Jackson         Olympia		
	.Clark V. SavidgeOlympia .Fred G. CookOlympia		
	.Robert C. Saunders         .Seattle           Dix H. Rowland         .Tacoma           Chas. T. Lund         .Spokane		
Secretary	.C. S. ReinhartOlympia		
	.E. F. Bialne       Olympia         Arthur A. Lewis       Olympia         Frank R. Spinning       Olympia         .J. H. Brown       Olympia		
Chief Grain Inspector	.R. D. Jarboe		
	.Mrs. Jackson Silbaugh Seattle Mrs. W. H. Udall Tacoma M. H. Marvin Tacoma		
	.Mrs. Frances King HeadleeOlympia		
Secretary	.C. R. Jackson       Olympia         J. W. Brislawn       Olympia         .Thomas P. Horn       Olympia		
Uniform Legislation Commission	.Charles E. Sheppard         Seattle           Alfred Battle         Seattle           W. V. Tanner         Olympia		
	Ernest Lister Olympia W. V. Tanner Olympia Josephine Corliss Preston Olympia C. E. Muckler Tacoma Chas. M. Farrer Seattle Harry L. Parr Olympia		
STATE INSTITUTIONS.			
Board of Regents University of Washington	O. A. Fechter (Pres.)         North Yakima           John A. Rea.         Tacoma           William T. Perkins         Seattle           Chas. E. Gaches         Mt. Vernon           Eldridge Wheeler         Montesano           Winlock W. Miller         Seattle           Dr. W. A. Shannon         Seattle		
Board of Regents State College of Washington	W. A. Ritz (President)         Spokane           E. T. Coman         Spokane           J. C. Cunningham         Spokane           R. C. McCroskey         Garñeld           W. M. Pease         Seattle		

Trustees State Normal School (Cheney)   Mary A. Monroe
Trustees State Normal School (Bellingham)
Trustees State Normal School (Ellensburg)
State School for Deaf
State School for BlindSadie E. Hall (Supt.)Vancouver
State Training SchoolGeorge A. SheafeChehalis
State School for Girls
State Soldiers' HomeEd C. Warner (Supt.)Orting
Washington Veterans' Home
Western Hospital for InsaneDr. W. N. Keller (Supt.) Ft. Stellacoom
Eastern Hospital for InsaneDr. A. S. Oliver, Jr. (Supt.). Medical Lake
Northern Hospital for InsaneDr. J. W. Doughty (Supt.). Sedro Woolley
State Penitentiary
State Institution for Feeble MindedS. C. Woodruff (Supt.)Medical Lake
State Reformatory         H. R. King.         Seattle           G. Dowe McQuesten.         Tacoma           T. E. Skaggs.         Olympia           W. H. Cochran.         Olympia           F. F. Swale.         Everett
Superintendent

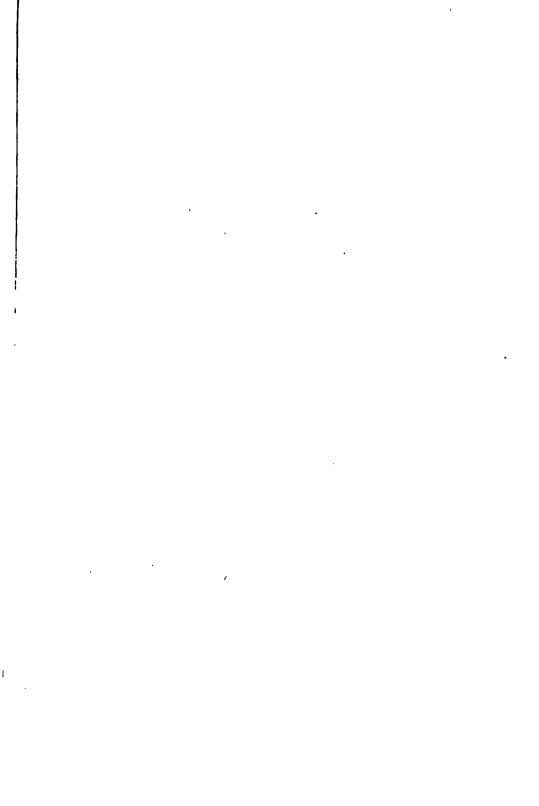
# STATE OF WASHINGTON

# LEGISLATIVE ROSTER

FIFTEENTH SESSION

1917

CONVENES JANUARY 8
ADJOURNS MARCH 8



# **SENATE**

## MEMBERS OF THE SENATE, FIFTEENTH SESSION, 1917.

=				
No. Dist.	NAME	COUNTIES REPRESENTED	P. O. ADDRESS	POLITICS
1	J. W. Faulkner	Grant	Okanogan	Democrat
2	°C. R. McMillan	Stevens	Orin	Democrat
8 4 5	Harve H. Phipps R. A. Hutchinson E. Ben Johnson	Spokane	1408 Montgomery, Spokane S. 1708 Grand, Spokane Spokane	Republican Republican Republican
6 7 8	*Guy B. Groff*  *Frank A. Chase  *Oliver Hall	Spokane	Altadena Apartmenta, Spokane 4th & Cedar, Spokane Colfax	Republican Republican Republican
9	W. W. Brand	Whitman	Rosalia	Democrat
10	Kigin V. Kuykendall	Columbia	Pomeroy	Republican
11	Oliver T. Cornwell	Adams	571 Boyer, Walla Walla	Republican
12 13	D. H. Cox	Walla Walla	Walla Walla	Republican Democrat
14 15	Charles E. Myers D. V. Morthland		Davenport 801 Pleasant, North Yakima	Republican Republican
16	J. M. Stevenson	Skamania	Stevenson	Republican
17 18 19	Edward L. French Frank G. Barnes John W. Kleeb	Clarke	R. F. D. No. 1, Vancouver Castlerock 422 Cowlitz, South Bend	Republican Republican Republican
20 21	A. E. Judd E. E. Boner	Grays Harbor	Ohehalis	Democrat Republican
**	P. H. Oarlyon	[Mason]	Olympia	Republican Republican
_		Island     Clallam	Port Angeles	
24	A. A. Smith	San Juan		
27 28	Warner M. Karshner  Ralph Metcalf  Walter S. Davis  Wilburn Fairchild	Pierce	Puyallup Takima, Tacoma U. of Puget Sound, Tacoma Si S. 82nd, Tacoma	Republican Republican Republican Republican
30	*Jessé S. Jones *Howard D. Taylor *Ralph D. Nichols	Plerce King	6004 S. Junett, Tacoma Eagle Gorge	Republican Republican Republican
12 ·	*Dan Landon *William Wray	King	4116 Fremont, Scattle	Republican Republican
25	*James A. Ghent *Lincoln Davis *G. E. Steiner	King King.	Assembly Hotel, Seattle	Republican Republican Republican
87 i 39 i	*E. B. Palmer	King Snohomish Snohomish	521 18th N., Seattle	Republican Republican
40	*E. J. Cleary	Skagit	410 Avenue B, Snohomish Anacortes Custer 917 14th St., S. Bellingham	Republican Republican Republican Republican
_				

[•] Holdover.

## HOUSE

#### MEMBERS OF THE HOUSE OF REPRESENTATIVES, FIFTEENTH SESSION, 1917.

				,
Dist.	NAME	COUNTIES	P. O. ADDRESS	POLITIOS
No.		REPRESENTED		
Z				
1	Z. E. Hayden	Stevens	Kettlefalls	Republican
1	John Selmer	Stevens	Northport	Democrat
2	Ira Honefenger L. L. Westfall	Spokane	1104 Knox Ave., Spokane	Republican Republican
8	Albert A. Kelly	Spokane	E. 4100 Sprague, Spokane	Republican
8	David Porter Reid	Spokane	E. 1415 96th, Spokane	Republican
4	Olaf L. Olsen	Spokane	Deer Park	Republican
5	A. R. Stratton	Spokane	R. F. D. No. 7, Spokane W. 708 20th, Spokane	Republican Republican
5	L. Frank Boyd	Spokane	46 Review Bldg., Spokane	Republican
6	Fred A. Adams	Spokane	8. 1108 Walnut, Spokane	Republican
6	John Anderson	Spokane	Apt. 12, San Marco, Spokane	Republican
7	C. E. Hoover	Whitman	LaCrosse	Republican Republican
8	Roy Jones	Whitman	Palouse	Republican
8	C. W. McCall	Whitman	Garfield	Democrat
9	Elmer E. Halsey	Asotin	Clarkston	Republican
10 11	J. T. Ledgerwood	Garfield	Pomeroy	Democrat Democrat
12	A. L. Ray	Walla Walla	Walla Walla	Democrat
18	John W. Summers	Walla Walla	Walla Walla	Republican
18	R. E. Butler	Walla Walla	Waitsburg	Republican
14	Logan L. Long	Franklin Adams	Connell	Republican Republican
15 16	M. W. Anthony E. L. Farnsworth	Lincoln	Wilbur	
16	J. J. Cameron	Lincoln	Harrington	Democrat
17	E. F. Banker	Okanogan	Winthrop	
18	James A. Cross	Douglas	Mansfield	
19 19	J. C. Hubbell Delbert O. Kearby	Kittitas Kittitas	Cle Elum	Republican
20	William P. Sawyer	Yakima	R. F. D., Wapato	Republican
20	Ina Phillips Williams	Yakima	North Yakima	Republican
21 22	John C. Crawford Elmer E. Shields	Klickitat Skamania	Grand Dalles	Republican
22	George McCoy	Clarke	Vancouver	Republican
23	C. W. Ryan	Clarke	Vancouver	Republicat
24	Luther M. Sims	Cowlits	Kalama	
25 26	Joseph Girard	Wahkiakum Pacific	Cathlamet	Republicat Republicat
27	J. S. Siler	Lewis	Vance	Republicat
27	H. H. Swofford	Lewis	Ohehalis	Republicat
27	J. E. Lease	Lewis	Centralia	
28 28	Lewis J. Morrison C. C. Aspinwall	Thurston	Olympia Olympia	
20	A. E. Graham	Grays Harbor	Aberdeen	Republicat
29	Geo. W. Gauntlett	Grays Harbor	Montesano	Republican
80	C. W. Hodgdon Mark E. Reed	Grays Harbor	Hoquiam	
31 82	J. Howard Shattuck	Mason Kitsap	Shelton Port Orchard	
88	William Bishop	Jefferson	Chimacum	
38	H. B. Gardner	Jefferson	Gardiner	Republicat
34	A. J. Cosser	Olaliam	Port Angeles	
35 85	Elmer E. Healey	Pierce	Puyallup Wilkeson	
36	Guy E. Kelly	Pierce	924 N. L St., Tacoma	Republicat
36	Torger Peterson	Pierce	R. F. D., Eatonville	.  Republica:
87	James H. Davis	Pierce	812 S. Ainsworth, Tacoma	
87	Wm. C. Elliott	Pierce	1115 S. 4th, Tacoma	. Republican
	'		1	•

#### MEMBERS OF THE HOUSE OF REPRESENTATIVES-Concluded.

No. Dist.	NAME	COUNTIES REPRESENTED	P. O. ADDRESS	POLITIOS
ON 888888888888888888888888888888888888	Hiram E. Washburn.  Geo. W. Thompson. Dr. Winfield P. Goff.  Claude A. Young. Fred J. Mess. Walter J. Lunn. Fred O. Nelson. Paul W. Houser. A. E. Fuller. W. T. Christensen. Frank E. Boyle. Victor Zednick Ralph E. Knapp. Frank H. Manogue. Robert Grass Frank H. Renick Fred W. Hastings. Stephen A. Hull. John R. Wilson. E. H. Guie. Thomas N. Swale. S. Frank Spencer.	Pierce Pierce Pierce Pierce Pierce King King King King King King King King	819 E. 85th, Tacoma.  1102 E. 81st, Tacoma.  1108 Madison, Tacoma.  4110 S. Madison, Tacoma.  410 S. Yakima St., Tacoma.  410 S. Yakima St., Tacoma.  410 S. Yakima St., Tacoma.  410 S. Yakima St., Eacoma.  4202 Alki Ave., Seattle.  4202 Alki Ave., Seattle.  4202 Alki Ave., Seattle.  4202 19th S., Seattle.  925 24th S., Seattle.  925 24th S., Seattle.  1926 Sepiston Ave., Seattle.  1201 Boylston Ave., Seattle.  1424 Belmont Ave., Seattle.  1220 Boylston Ave., Seattle.  1225 7th Ave., W. Seattle.  1128 17th N., Seattle.  1138 17th N., Seattle.  145 Bellevue N., Seattle.  Everett  Everett	Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican Republican
49 49 50 51 51	M. G. Thomle Charles W. Gorham W. E. Terry. J. O. Rudene J. M. Shields	Snohomish Snohomish Island Skagit Skagit	Stanwood	Republican Republican Republican Republican Republican
51 58 58 54 54 54	Fred B. Fulton E. H. Nash. Tom Brown C. H. Hoff. Charles I. Roth. Fred D. Yale.	Skagit	Anacortes Friday Harbor Sumas Lawrence 2401 Eim St., Bellingham 930 Indian St., Bellingham	Republican Republican Republican Republican Republican Republican
56 58 59	A. L. Bradley		Danville Wenatchee Richland Krupp Newport	

## NON-PARTISAN JUDICIARY.

### SUPREME COURT JUDGES.

BUFARME COURT JUDGES,	
Overton G. Ellis	Tacoma
Mark A. Fullerton	. Collax
Stephen J. Chadwick	Olambir
O. R. Holcomb	Ritzville
John F. Main	Seattle
Wallace Mount	Spokane
Emmett N. Parker	Tacom
George E Morris	Seattle
J. Stanley Webster	Spokane
	Overton G. Ellis.  Mark A. Fullerton. Stephen J. Chadwick. O. R. Holcomb. John F. Main. Wallace Mount Emmett N. Parker. George E. Morris. J. Stanley Webster.

	J. Stanley Webster	Spoka
SUPERIOR (	COURT JUDGES.	
Adams County	John Truax	Ritsvill
Agotin County	Chester W Miller	. Day
Renton County	John Truex	Ritsv
Ohalam Commtm	Wm A Chimaham	W
Clarke County	D. D. Dauk	· · · · · · · · · · · · · · · · · · ·
Columbia County	Chester B. Miller	
Cowlitz County	W. T. Darch	Kalami
Douglas County	Sam B. Hill	Waterville
Ferry County	C. H. Neal	Oroville
Franklin County		
Garfield County		
Grant County		
Grays Harbor County		
	Geo. D. Abel	
Island County	John M. Ralston	Pt. Angeles
Jefferson County		
King County		
	J. T. Ronald	
	Robert B. Albertson	
	King Dykeman	
	Mitchell Gilliam	
	Boyd J. Tallman	
	Kenneth Mackintosh	
	John S. Jurey	
Kitsap County	Everett Smith	
Kittitas County		
Klickitat County		
Lewis County		
Lincoln County		
Mason County		
Mason County	D. F. Wright	
Okanogan County		
Pacific County		
Pend Oreille County		
Pierce County		
	W. O. Chapman	
	M. L. Clifford	
	C. M. Easterday	
San Juan County		
Skagit County		
Skamania County		
		•

Snohomish County	.Ralph C. BellEverett
	Cum C Alaton Emanett
Spokane County	.Wm. A. HunekeSpokane
· ·	Bruce BlakeSpokane
	David W. HurnSpokane
	Hugo E. OswaldSpokane
	R. M. WebsterSpokane
Stevens County	Daniel Henry CareyColville
Thurston County	John R. MitchellOlympia
	D. F. WrightShelton
Wahkiakum County	H. W. B. HewenSouth Bend
Walla Walla County	.Edward C. MillsWalla Walla
Whatcom County	Ed. E. HardinBellingham
	Wm. H. PembertonBellingham
Whitman County	R. L. McCroskeyColfax
Yakima County	.George B. Holden North Yakima
	Harcourt M. TaylorNorth Yakima

COUNTY OFFICERS OF WASHINGTON FOR THE TERM COMMENCING JANUARY 8, 1917.

	Counties	County Seat	Sheriff	Clerk	Auditor	Tregsurer
1	Adams	Ritzville	Geo. N. McCollom	J. C. Hauschild	Laura Schragg	H. E. E. Kalkwarf
. ~	Asotin	Asotin	¥	J. Warren Stephens	Lillie Ausman	G. A. Fraser
ຕ	Benton	Prosser	C. E. Duffy	M. C. Delle.	J. C. Syfford	H. S. Huntington
₹	Chelan	Wenatchee	Bert McManus	Martin T. Spencer	Terry L. Ross	George R. Fisher
ю:	Clallam	Port Angeles	▶	Sam C. Rickson	J. W. Warren	Herbert H. Wood
ופ	Clarke	vanconver	E. S. Blesecker	Fannie S. Crocker	May K. Haack	Consult
- o	Columbia	Dayton	W. T. Wooten	E. D. Cleveland	J. T. Clancy	M. Kiggs
000	COWINE	LARIBINA	Clark Studebaker	ż	B. O. Olson.	T IN In-in-
2	Pouglas	Waterville	S. E. Jordan	Albert C. Adams	W. T. O'Connell	M. M. Stack
	Franklin	Dasco	Edward Onstott	H A Robinson	T. D. Conrad	E. D. Sheffeld
12	Garffeld	Pomerov	W. J. Schneckloth	Harry St. George	E E Powell	Olive O. Darby
13	Grant	Ephrata	A C Banko	James D. Steele	C. T. Sanders.	W. J. Hauser
14	Grays Harbor	Montesano	Jeff Bartell	W. C. Birdwell	W. D. Campbell	John B. Orton
91	Island	Coupeville	Fred Armstrong	John C. Richards	Roy H. Gillespie	H. Wanamaker
18	Jefferson	Port Townsend	Martin Herstrom	J. J. Bishop	Mae M. Plummer	Arch C. Tweedle
	King	Seattle	John Stringer	Percy F. Thomas	Norman M. Wardall.	John A. Bennett
	Kitsap	Port Orchard	D. J. Davis	A. M. Anderson	J. M. Peterson	R. E. Gordon
-	Kittitas	Ellenspurg	Howard Garrison	Fred T. Hoffman	W. G. Damerow	Mand Gilmour
20	Klickitat	Goldendale	Ira Henderson	Kate Nye	Roy E. Crooks	John A. Miller
7	Lewis	Chehalis	John F. Berry	Cora Black	Bertha Gage	J. E. Kaugnt
N C	Lincoln	Davenport	J. A. Level		J. E. Howard	C. C. Gibson
_	Mason	Shelton	W. A. Tucker	Hattle E. Rucker	Irene W. Richardson.	W. T. Mann
_	Okanogan	Okanogan	_	Mary E. McClure	J. D. Hubbard	F. W. Piessinger
88	Pacific	South Bend	W. H. Turner	Z. B. Brown	W. E. Lovering	Earle E. Decker
91	rend Orenne	Newport	Frank H. Deering.	K. K. ISBACS.	S. M. McGee	Willer Trans
700	Fierce	Tacoma	Robert Longmire	E. F. McAenzie	Thomas N. Morris	Tohn II Bouge
96	State Justin	Mount Vernon	Ches W Stowerson	T T Smith	TOUR D. Walleley	Will R Wells
	Skamenie	Stevenson	S I Knox	S. M. Eddings	C H Nellor	John Wachter
-	Snohomish	Kverett	James McCulloch	Charles H Fickel	Mae Weatherhee	D. Carl Pearson
_	Spokane	Spokane	George L. Reid	Glen B. Creighton	Alfred T. Anderson	John H. Tilsley
80	Stevens	Colville	William Miller	Ξ.	Earle T. Gates	Irving D. Sill
80	Thurston	Olympia	J. H. Gifford	I. N. Holmes.	Annie Gaston	Fred W. Stocking
8	Wahklakum	Catulatue	Robert Irving	Way D. Watkins	Stanche Heron	Winired M. Cooper
జ	Walla Walla	Walla Walla	Lee Barnes	A 114 Land Malling Land	C. F. Dement	Guy Allen Turner
3	Whatcom	Bellingham	Will D. Wallace	A AGRIDI	J. A. Miller.	Frank Wilson
800	Whitman	Colfax	H. S. McClure	Frank D. Williams.	A. R. Mets	B. F. Manring
9		MOTOR TREAMS	W. F. Brush		Charles E. Barrett.	J. B. Peters

COUNTY OFFICERS OF WASHINGTON-CONTINUED.

	Counties	Attorney	Assessor	School Supt.	Engineer
e4 e5	Adams Asotin Benton	Otto W. Naef. Homer L. Post C. W. Fristoe	J. H. Perkins. E. R. Downen. A. H. Wheaton.	Elizabeth M. Meyer. C. B. Thornton Mrs. Lowa M. Crawford.	O. J. Despain P. P. Oehler Guy H. Heberling
410	Chelan	Burt J. Williams Frank L. Plummer	E. A. Prickett	Robt. A. Gilmore	ĞP,
<b>9</b> (~	Columbia	R. M. Sturdevant.	Blanche Beckett	W. W. Hendron	Wilson McBride
ထထ	Cowlits Douglas	Warren N. Wilson	K. W. White	J. K. Thornton	Fred C. Cramer Robert F. Foster
25	Ferry	Jas. T. Johnson	John W. McCool Ralph A. McCotter	Earl D. Hougland	L. H. Rubican J. W. Ketner
22	Garfield	A. G. Farley	A. J. Buchet	Belva L. Bail.	M. W. Fitzsimmons
27	Grays Harbor	W. H. Tucker	Sherman Hoover	T. W. Bibb	Geo. D. Robertson
29	Jefferson	Tom. W. Holman	.=	Elva S. Edwards	Thos. C. Clerk B. O. Bendixen
11	King	Alfred H. Lundin	John M. Thatcher	A. S. Burrows	Samuel J. Humes
961	Kittitas	Arthur L. McGuire		S. A. Bartlett	H. A. Murray
8	Klickitat	John R. McEwen	R. E. Nichols	Mabel H. Hinshaw	Geo. W. Borden
72	Lincoln	J. D. McCallum	Geo. S. Brown.	J. R. Ward	Guy G. Harvey
83	Mason	Alden C. Bayley	M. B. Schumacher	Anna Kimmel Melvin	Arno V. Meyer
18	Pacific	John I. O'Phelan	E. A. Seaborg.	Edith Soper	Chas. S. B. Henry
98	Pend Orellle	Chas. H. Leavy	F. E. Davenport	Minnie Johnson	H. A. Sewell
- 8 7 8 7	San Juan	Fred G. Kemanii	B. O. Cahail.	Carrie M. Busby	E. Ed Allen
ಜೀ	Skagit	A. R. Hilen	J. Z. Nelson.	Mabel Graham	W. E. Costello H. Breche
82	Snohomish	Lloyd L. Black	Wm. Whitfield	W. F. Martin	W. C. Bickford
800	Spokane	John B. White	Wm Gillings	Jeanette S. Donaldson	Allen R. Scott
8 %	Thurston	Thos. L. O'Leary.		O. C. Goss	Frank A. Weir
8	Wahkiakum	Geo. F. Hannigan	N. P. Overn.	Mand K. Butler	J. E. Thorndike
300	Whatcom	W. P. Brown	Alex Van Wyck	Ethel Everett	Chas. Lindberry
800	Whitman	F. B. Clegg.	M. C. True.	S. F. Shinkle	John M. McCaw
3	a Thomas Control	1 4 4017			

• Term begins September 1, 1917.

COUNTY OFFICERS OF WASHINGTON-CONTINUED.

	:	•		COUNTY COMMISSIONERS	
	Counties	Coroner	District 1	District 2	District 3
-	Adams		Jacob Schoessler	C. E. Moody	A. M. Gillis.
c) cc	Asotin	C. C. Moffatt.	C. Shumaker F. L. Bash	John K. McIntosh E. C. Houston	O. E. Bailey. R. E. Pratt
4	Chelan	A. Jay Templeton	E. F. Cadman	Matt Hickey	Geo. W. Milham
ر د	Clallam	W. J. Taylor	James Dick	Garfield Davis	James F. Clark
٥,	Columbia	Dr. J. M. Miller.	John Blize	R. H. Prater	John F. Miggins
<b>∞</b>	Cowlitz	C. W. Bales	Fred M. Lane	Albert Maurer	
2	Douglas Ferry	O. F. Webb.	John H. Grunwell	J. R. Sharn	J. H. Sanders. Geo. J. Tavlor
22	Franklin	Ray B. Lee.	_	Geo. H. Dilling.	
25	Garfield	D C Milhallan	C. H. Rommel	Ed Malone	E. L. Sanford
34	Grays Harbor	G. E. Chamberlain	J. B. Kirkaldle	Jerry A. McGillicuddy, Jr.	E. S. Hubble
22	Island	J. R. Persons.	John M. LeSourd	Lenard Lang	-
16	Jefferson	Joseph Weeks	C. I. Wanamaker.	Samuel Curry	Fercy Bowman
18	Kitsan	Fred R. Lewis	John Ryen	E. T. Harris	O. C. Palmatier
13	Kittitas	Murvey Bridgham	J. W. Groman	James Lane	H. G. McNell
35	Lowis	Merie W. Chapman	R R Rommerville	M. K. roungquist	Cecil K. West
121	Lincoln	Julius T. Lyse.	George N. Lowe	J. E. Furgeson	F. A. Hudkins
8	Макоп	W. M. Beach	W. A. Hunter	Henry Latham	Chas. H. Wivell
22	Pacific	Robt. S. Henderson.	J. A. Morehead	Wullam Anderson	J. T. Stratton*
8	Pend Oreille	Jas. M. McDonald	Ira S. Troyer.	R. Greenhalgh.	R. B. Hall
7 0 7 0	Pierce Sen Inen	F. J. Stewart	Jas. R. O'Farrell	T. H. Bellingham	J. W. Slayden
ន	Skagit	Arthur F. Baker	E. A. Sisson.	S. M. Butler	Henry Thompson
8;	Skamania	F. J. McDaniels	Moris Shields	P. F. Inman	J. W. Shipley
35	Spokene	M. B. Grieve	Charles R. Howard	John L. Boyle	W H McVave
8	Stevens	J. C. Rigg.	Henry Hughes	Patrick H. Graham	M. C. Stolp.
20 00 44 70	Thurston	Jesse T. Mills	James C. Sams	S. Y. Bennett.	T. Ives Dodge Wm. Anderson
8	Walla Walla	Geo. MacMartin	A. C. Moore	D. E. Baton	Jim L. Reavis
200	Whatcom	Dr. N. Whitney Wear.	W. E. Thompson	J. B. Sanborn.	B. T. Manchester
8	Yakima	Dr. H. R. Wells.	A. Landstrum	W. D. Dimmick	A. C. Turber

Chapter 42, Bession Laws 1915, abolished the office of county wreckmaster. • Holdover.

# ABSTRACT OF VOTES

POLLED IN THE

# STATE OF WASHINGTON

AT THE

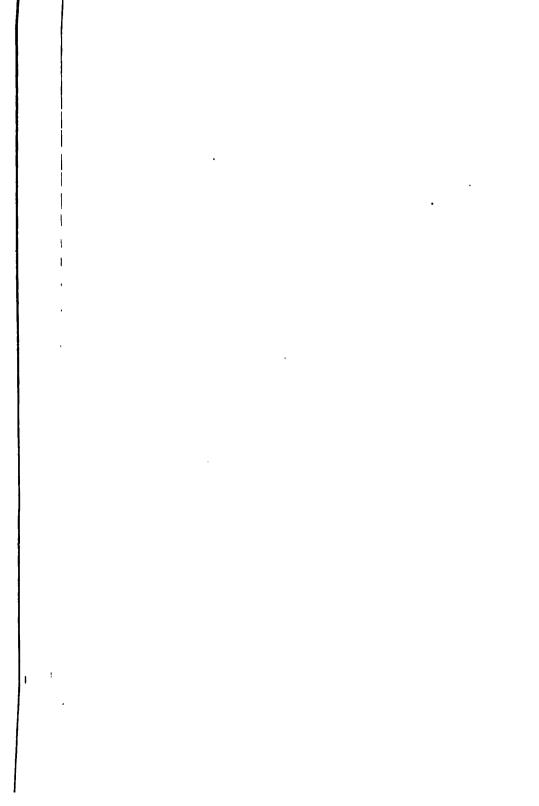
# PRIMARY ELECTION

HELD

# SEPTEMBER 12, 1916

FOR

U. S. Senator, Representatives in Congress, State Officers, Supreme Court Judges, Joint Superior Court Judges, and State Senators Whose Districts Comprise More Than One County



# OFFICIAL RETURNS FOR PRIMARY ELECTION SEPT. 12, 1916

The following is a summary of the official returns of the State on the national, state, district and non-partisan judiciary officers voted for at the primary election held the second Tuesday in September, being the twelfth day of September, nineteen-sixteen, the summary including only the regularly filed candidates and those nominated by the scattering vote:

#### United States Senators.

Nome	First Choice	Second Choice	Total
William E. Humphrey (Republican)	69,715	25,979	95.694
Miles Poindexter (Republican)	77.962	28.816	106,778
Enoch A. Bryan (Republican)	24.868	58,901	83,769
Wm. Alvin Spalding (Republican)	8,262	19,426	22,688
Schuyler Duryee (Republican)	3,540	18,119	21,659
Mrs. John B. Allen (Republican)	6,877	81,544	88,421
Robert Bridges (Democrat)			9,628
George Turner (Democrat)			20.002
Walter J. Thompson (Progressive)			296

#### Representatives in Congress.

#### FIRST CONGRESSIONAL DISTRICT.

Name	First Choice	Second Choice	Total
W. M. Whitney (Republican)	. 8.337	4.660	12.997
Frank E. Hammond (Republican)	. 1.984	8,405	5,389
H. E. Foster (Republican)	1,065	2,094	3,159
J. Y. C. Kellogg (Republican)	. 2,108	8,983	6,041
James Wesley Bryan (Republican)	. 4,963	4,095	9,058
John E. Ballaine (Republican)	7,638	6,900	14,588
John F. Miller (Republican)	. 8,735	7,601	<b>16,886</b>
Lincoln Davis (Republican)	. 1.774	3,060	4.834
Frank Pierce (Republican)	. 889	2,595	3,484
Daniel Landon (Republican)	. 8,191	6,990	15,181
George F. Cotterill (Democrat)		• • • • • • • • • • • • •	5,719
George F. Cotterill (Progressive)	•••••	• • • • • • • • • • • • • • • • • • • •	17

#### SECOND CONGRESSIONAL DISTRICT.

Lindley H. Hadley (Republican)	20.980
Mrs. Frances C. Axtell (Democrat)	331
Mrs. Frances C. Axtell (Progressive)	95 253

#### THIRD CONGRESSIONAL DISTRICT.

Albert Johnson (Republican)	82,998
A. V. Fawcett (Republican).  George P. Fishburne (Democrat)	K 081
W. F. Ferguson (Socialist)	. 34

#### FOURTH CONGRESSIONAL DISTRICT.

Name	First Choice	Second Choice	Total
William L. LaFollette (Republican)	. 11,695	4,776	16,471
Harry W. Hale (Republican)	. 3,672	6,067	9,739
Stephen J. Harrison (Republican)	. 4,364	5,257	9,621
Will H. Fouts (Republican)	. 2,826	3.118	5,944
Edward Parker (Republican)	. 1.671	4.869	6.540
Chas. W. Masterson (Democrat)			5.013
Harry W Hala (Progressive)			

FIFTH CONGRESSION	AL DISTRIC	CT.	
	T1	Carried Chales	Total
Alongo M Musuhaw (Danuhitaan)	7100	2 000	11,092
Tom Corkery (Republican)	7.782	4.744	11,0526 12,526 7,619 8,842 5,441 6,565 3,492 7,040
F. M. Goodwin (Republican)	2,802	4,817	7,619
Charles C. Hart (Republican)	. 3,707	5,185	5,441
Lloyd E. Gandy (Republican)	. 2,003	3,438 9 980	6,565
Guy R Groff (Republican)	. 3,300 1 022	2.470	3,492
C. C. Dill (Democrat)		-,v	7,040
Alonzo M. Murphey (Republican) Tom Corkery (Republican) F. M. Goodwin (Republican) Charles C. Hart (Republican) Lloyd E. Gandy (Republican) John T. Mulligan (Republican) C. C. Dill (Democrat) John T. Mulligan (Progressive)	• • • • • • • • • • • • • • • • • • • •		•
Governo	-		ara a dal
Name	First Choice	<b>Becond Choice</b>	Total
Geo. A. Lee (Republican)	. 28,097	25,456	48,553 20,047
J. E. Frost (Republican)	. 5,650	14,397	79.124
James McNaely (Republican)	. 40,300 19.085	99,82 <del>1</del> 22,220	79,124 41,285 68,238 21,012 43,589
Roland H. Hartley (Republican)	38,615	29,623	68,238
John G. Lewis (Republican)	. 7,444	13,568	21.012
W. J. Sutton (Bornblican)	. 18,362	25,227	51.389
William Edwin Cass (Democrat)	. 20,200	21,808	51.389 3.794
Ernest Lister (Democrat)			<b>28</b> ,620
Geo. A. Lee (Republican). J. E. Frost (Republican). Henry McBride (Republican). James McNeely (Republican). Roland H. Hartley (Republican). Robert T. Hodge (Republican). W. J. Sutton (Republican). William Edwin Cass (Democrat). Ernest Lister (Democrat). James E. Bradford (Progressive).	. <b></b>		320
Lieutenant Go			
Name	Pinet Chaice	Second Choice	Total
Louis F. Hart (Republican) Arthur W. Davis (Republican). Geo. H. Baker (Republican). Loren H. Brewer (Republican). Thomas Lally (Democrat). A. W. Davis (Progressive).	77 070	91 0K7	109.936
Arthur W. Davis (Republican)	42.643	47.355	89,998
Geo. H. Baker (Republican)	. 25,856	51,079	76,930
Loren H. Brewer (Republican)	. 17,898	88,907	36.820
A. W Davis (Progressive)	· · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	34
		· · · · · · · · · · · · · · · · · · ·	
Secretary of			4 760
I. M. Howell (Republican). W. H. Ford (Republican). J. M. Tadlock (Democrat). Frank A. Rust (Progressive).	• • • • • • • • • • •	• • • • • • • • • • • • •	114.760 54.519 25.841
J. M. Tadlock (Democrat)	• • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	25.841
Frank A. Rust (Progressive)			292
State Treas			
•		Second Chalco	Total
W. W. Sherman (Republican) Calvin J. Carr (Republican) W. J. Milroy (Republican) Harold H. Stewart (Republican) J. L. Glazebrook (Republican) George J. Galvin (Democrat) George J. Galvin (Progressive)	FYFET UNOVOE	Second Choice	101.448
Calvin J. Carr (Republican)	. 05,724 47 991	87,719 86.756	83,977
W. J. Milroy (Republican)	14,964	27,083	42.047
Harold H. Stewart (Republican)	. 29,853	43,979	73,884
George J Galvin (Democrat)	. 7,791	16,926	25.765
George J. Galvin (Progressive)	. <b>.</b>		29
. State Audi			
-			850
C. W. Clausen (Republican) W. E. Cromwell (Republican) Otto A. Case (Democrat) Otto A. Case (Progressive)		• • • • • • • • • • • • • • • • • • • •	111.650
Otto A. Case (Democrat)			83.640 2,572 30
Otto A. Case (Progressive)		· · · · · · · · · · · · · · · · · · ·	30
Attorney Ger			
W. V. Tanner (Republican)			158,887
Henry Alberts McLean (Democrat)			2,506
W. V. Tanner (Republican)	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	201
Commissioner of P	ublic Lands	<b>3.</b>	
Clark V. Savidge (Republican)			159,577
Robert E. McFarland (Democrat)			854
Joe Smith (Progressive)	• • • • • • • • • • • •		28

Superintendent of Public Instruction.	
Name First Choice Second Choice	Total
Togenhine Corling Proston (Republican) 77 456 80 674	108,130
M. E. Durham (Republican)	93,665
Ruth C. Hoffman (Republican)	98,665 95,351 36,606 24,550
DeFore Cramblitt (Republican)	36,606
Josephine Corliss Preston (Republican)         77,456         80,674           M. E. Durham (Republican)         50,282         43,888           Ruth C. Hoffman (Republican)         31,514         63,837           DeFore Cramblitt (Republican)         8,086         28,520           J. H. Morgan (Democrat)         Joseph K. Hart (Progressive)	24,000 274
Joseph A. Hart (Progressive)	217
State Insurance Commissioner.	
H. O. Fishback (Republican)	116,769
Calvin E. Vilas (Republican)	97,984
H. O. Fishback (Republican). Calvin E. Vilas (Republican). J. H. Hemer (Democrat). L. L. Snow (Progressive).	20,200
Joint State Senatorial Districts.	200
STATE SENATOR, FIRST DISTRICT.	
W. A. Bolinger (Republican).           M. B. Howe (Republican).           J. W. Faulkner (Democrat).	2,878
M. B. Howe (Republican)	2,621 1,715
J. W. Paulaner (Democrat)	1,110
STATE SENATOR, TENTH DISTRICT.	
	1,493
W I Howall (Republican)	1,483
Elgin V. Kuykendali (Republican). W. L. Howeli (Democrat)	98
STATE SENATOR, ELEVENTH DISTRICT.	
Eibert M. Chandler (Republican) W. O. Miller (Republican) O. T. Cornweil (Republican) E. G. Cox (Democrat)	1.127
W. O. Miller (Republican)	1,127 1,035
O. T. Cornwell (Republican)	1,361
E. G. Cox (Democrat)	909
STATE SENATOR, THIRTEENTH DISTRICT.	
J. B. Adams (Republican) John Feryman (Democrat) J. B. Adams (Democrat)	4,798
John Feryman (Democrat)	75
J. B. Adams (Democrat)	30
STATE SENATOR, FIFTEENTH DISTRICT.	
D. V. Morthland (Republican)	5,738 8,180
C. E. Lum (Republican). H. C. Davis (Democrat)	8,180
H. C. Davis (Democrat)	997
STATE SENATOR, TWENTY-THIRD DISTRICT.	
	0.054
P W Condon (Republican)	3,354 3,280
Peter Iverson (Republican)	559
NON-PARTISAN JUDICIARY TICKET.	
Supreme Court Judges.	
(For six-year term vote for three; for four-year, vote for one.) SIX-YEAR TERM.	
Emmett N. Parker	124,218
Emmett N. Parker.  Mark A. Fullerton.  George E. Morris. Charles E. Claypool.  Edgar G. Mills.	124,108
George E. Morris	119,897
Charles E. Claypool	87,186
Peter Husby	188
	200
FOUR-YEAR TERM.	
J. Stanley Webster	117,580
ELING F. DEFECT	70,365
ludges for the Cumpular Co	
Judges for the Superior Court.	
THURSTON AND MASON COUNTIES.	
John R. Mitcheli(Two to be elected)	
John K. Mitcheli	4,496 4,343
D. F. Wright	4,343

DOUGLAS AND GRANT COUNTIES. (One to be elected)	
Sam B. Hill	2,566 1,056
PACIFIC AND WAHKIAKUM COUNTIES. (One to be elected)	
H. W. B. Hewen	1,611 950 658 1,090
BENTON, FRANKLIN AND ADAMS COUNTIES. (One to be elected)	
Edward A. Davis	1,310 1,476 726 1,232
STEVENS AND PEND OREILLE COUNTIES. (One to be elected)	
Daniel H. Carey	1,710 1,720 982
FERRY AND OKANOGAN COUNTIES. (One to be elected)	
E. K. Pendergast	2,517 2,266
KLICKITAT, SKAMANIA AND COWLITZ COUNTIES. (One to be elected)	
William T. Darch	3,553 2,187
JEFFERSON, ISLAND AND CLALLAM COUNTIES. (One to be elected)	
J. M. Balston	4,506
(One to be elected)  Chester F. Miller	2,011
SKAGIT AND SAN JUAN COUNTIES.	•
(One to be elected)	g 031

# ABSTRACT OF VOTES, PRIMARY ELECTION, 1916.

## REPUBLICAN TICKET.

Adams				UNIT	TED ST	TES SI	ENATO	3	
Asotin	COUNTIES	Votes		William E. Humphrey Second Choice Votes	Hump st and Votes	Miles Poindexter First Choice Votes	Miles Poindexter Second Ohoice Votes	. 10	
Walkfakum         763         221         91         532         138         125         26           Walla Walla         5,021         1,441         731         2,172         1,980         623         2,60           Whatcom         9,406         4,291         700         4,991         2,940         1,220         3,96           Whitman         4,432         488         861         1,379         986         955         1,93	Asotin Benton Chelan Chelan Clallam Clarke Columbia Cowiltz Douglas Ferry Franklin Garfield Grant Grays Harbor Island Jefferson King Kitsap Kittitas Kilekitat Lewis Lincoln Mason Okanogan Pacific Pend Oreille Perce San Juan Skagit Skamania Snohomish Spokaue Stevens Thurston Wahkiakum Walla Walla Whatcom Whitman	875 1,847 4,090 2,157 6,420 877 2,698 554 884 391 1,577 1,346 1,572 2,308 5,514 1,612 8,427 3,443 3,459 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 27,428 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,278 1,	139 310 875 718 1,948 246 716 212 212 112 1165 92 280 4,975 400 4,975 23,156 1,354 859 378 343 376 1,239 1,239 1,239 1,231 1,441 4,251 1,441 4,291	146 321 711 251 952 182 402 1126 68 68 277 277 149 201 4,098 373 347 157 510 188 1,258 3,285 34,281 731 731 737 781 737 781 881	985 985 989 2,896 428 1,118 354 238 333 160 57 5,872 549 676 27,258 1,729 956 2,725 44,502 2,731 281 4,802 2,731 281 4,802 2,731 281 4,802 2,731 281 4,802 2,731 281 4,802 2,731 4,901 1,379	197 722 1,790 716 1,483 206 606 606 6285 192 235 192 2,064 411 652 23,590 2,749 1,108 605 1,456 250 1,119 857 2,591 4,765 8470 7259 8470 887 1,986 2,986	102 3177 557 325 911 146 554 173 97 126 253 253 253 253 253 253 274 446 274 446 274 446 274 446 274 451 526 526 527 526 527 526 527 527 527 527 527 527 527 527 527 527	2999 1,039 2,347 1,041 2,394 438 289 438 438 167, 8,022 599 30,405 3,193 3,193 1,193 1,193 1,282 12,477 478 3,018 6,087 11,388 1,482 1,482	10 10 10 10 10 10 10 10 10 10 10 10 10 1

# REPUBLICAN TICKET—Continued.

	Enoch A. Bryan First Choice Votes	Enoch A. Bryan Second Choice Votes	Enoch A. Bryan Total First and Second Choice Votes	William Alvin Spalding First Choice Votes	William Alvin Spaiding Second Choice Votes	William Alvin Spalding Total First and Second Choice Votes	Schuyler Duryee First Choice Votes	Schuyler Duryee Second Cholce Votes Schuyler Duryee Total First and Second Obolce Votes
Asotin	298					ToT	Sehr	Schi Schi
Clallam Clarke Columbia Cowlitz Douglas Ferry Franklin Garfield Grant Grays Harbor Island Jefferson King Kitsap Kitstas Kilekitat Lewis Lincoln Mason Okanogan Pacific	404 329	202 137 430 1,072 430 1,501 159 539 235 94 209 361 2,139 383 588 1,570 873 407 266 640 743 332		32 14 28 42 19 161 11 186 12 7 21 4 4 41 148 21 49 556 47 68 103 145 20 15 42 69	11:3 4' 13:3299 15:54 6 30:66 3:5 52:111 499 9:15:6,50 61:288 10:07 7:18	7 61 2 160 6 1 347 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	15 18 1 55 66 1 187 22 137 16
5 Pend Oreille 7 Pierce 8 San Juan 9 Skargit 9 Skargit 9 Skamania 8 Snohomish 2 Spokane 8 Stevens 1 Thurston 9 Walklakum 9 Walla Walla 1 Whatcom 1 Whitman 9 Yakima	3,120 57 546 43 865 5,686 226 378 82 562 374 2,003	7,756 241 1,734 99 2,313 5,684 388 1,197 127 1,656 2,098 676 2,413	10,876 298 2,280 142 3,178 11,370 614 1,575 209 2,218 2,472 2,679 4,026	58 112 65	120 1,720 8: 572 56 971 1,500 1711 337 59 380 875 489 554	160 2,042 99 663 73 1,183	1 , 186 186 186 186 187 187 187 187 187 187 187 187 187 187	14 59 73 11 1,830 2,241 0 76 8 5 538 611

## REPUBLICAN TICKET—Continued.

					REPRESENTATIVE IN CONGRESS						
	- 41	U. B. (O	SENA ontinu	TOR ed)	First District						
	COUNTIES	Mrs. John B. Allen Ffrst Choice Votes	Mrs. John B. Allen Second Choice Votes.	Mrs. John B. Allen Total First and Second Choice Votes	W. M. Whitney First Choice Votes	W. M. Whitney Second Choice Votes	W. M. Whitney Total First and Second Choice Votes	Frank E. Hammond First Choice Votes	Frank E. Hammond Second Choice Votes	Frank E. Hammond Total First and Second Choice Votes	
1	Adams	82	108								
1	Asotin	38 61	99 248								
1	Chelan	164	539								
4	Clallam	77	380								
1	Clarke	411	789								
١	Columbia	53	149	202							
1	Cowlitz	135	304	439							
1	Douglas	46	97	143						******	
1	Franklin	28 36	59			*****	******			******	
1	Garfield	20	55								
1	Grant	80	157	246							
ľ	Grays Harbor	294	1,006	1,300							
	Island	65	178	243							
3	Jefferson	87	317	404						******	
	King	966	10,226	11,192	7,307	4,256	11,568	1,854	2,965	4,819	
1	Kitsap	91	1,108	1,199		404	1,434	130		570	
1	Klickitat	101	410 276	511 436							
4	Lewis	414	987	1,401							
	Lincoln	48	159								
	Mason	38	111	144							
1	Okanogan	131	831	462					******		
i	Pacific	129	492	621							
	Pend Oreille	50	194	244						******	
J	Pierce	730 52	3,030								
1	Skagit	254	1.179								
1	Skamania	42	56	98							
1	Snohomish	567	1,552	2,119							
1	Spokane	325	2,241	2,566							
1	Stevens	71	216	287							
1	Thurston	203	545								
1	Wahkiakum	52	102								
1	Walla Walla	106	559								
1	Whateom Whitman	281 129	1,430								
1	Yakima	316	553 969								
١	- aaima	916	1909	1,285						******	
- 3	Totals	6,877	81,544	1	8,337		12,997	1,964	8,405	5,389	

				REPR	ESENT	IVITA'	IN O	NGRE	88	
				]	First D	istrict	-Contin	ued		
COUNT	TIES	H. E. Foster First Choice Votes	H. E. Foster Second Choice Votes	H. E. Foster Total First and Second Choice Votes	J. Y. C. Kellogg First Choice Votes	J. Y. C. Kellogg Second Choice Votes	J. Y. C. Kellogg Total First and Second Choice Votes	James Wesley Bryan First Choice Votes	James Weeley Bryan Second Choice Votes	James Wesley Bryan Total First and Second Choice Votes
Adams Asotin Benton Chelan Clalam Clarke Columbia Cowiltz Douglas Ferry Franklin Grant Grant Jefferson King Kitsap Kittitas Lincoln Mason Okanogan Pacific Pierce San Juan Skagit Skamania Spokane Stevens Thurston Walla Wi	rbor	1,010	1,925	2,935	2,014	3,638	5,652 389	3,279 1,684	3,600	6,879
Skagit Skamania Snohomia Spokane Stevens . Thurston Wahkiaku Walla Whatcom Whitman Yakima	im									

				REPE	ESENT	(VITA?	E IN O	ongre	88	
					First D	dstrict-	-Contin	ued		
	COUNTIES	John E. Ballaine First Choice Votes	John E. Ballaine Second Choice Votes	John E. Ballaine Total First and Second Choice Votes	John F. Miller First Choice Votes	John F. Miller Second Choice Votes	John F. Miller Total First and Second Choice Votes	Lincoln Davis First Choice Votes	Lincoln Davis Second Choice Votes	Lincoln Davis Total First and Second Ohoice Votes
	Adams									
	Asotin Benton	::::::								
i	Chelan						l l			
	Clallam	ļ		• • • • • • • •	•••••	• • • • • • • •		• • • • • • • • • • • • • • • • • • • •		
	Columbia									
	Oowlitz					•••••				
	Douglas Ferry				• • • • • • •	• • • • • • •		• • • • • • •		
	Garfield									
	Grant Grays Harbor				• • • • • • •		i			i
	Island									
	Jefferson									
			6,101 799	18,187 1,851	8,372 368	7,128 478	15,500 886	1,618 156	2,729 831	4,84
	Kitsap Kittitas		780	1,801	805	4/8	800	100	991	10
	Klickitat									
	Lewis						ļ			
	Lineoln		1	l	<b>I</b> 1	i	1			
,	Okanogan								<b>:</b>	
	Okanogan Pacific Pend Orellle					<b></b>			[	
	Pend Orellie Pierce		ļ·····	• • • • • • • •			·····			· · · · · ·
	San Juan									
	Skapit	1								
	Skamania Snohomish		<b> </b>		·····	·····				
	Spokana						l			
	Stevens									
	Thurston		l					<b>.</b>		
	Wahkiakum Walla Walla		·····					·····		
	Whateom		l							::::::
	Whitman									
	Yakima									
	Totals	7,688		14,588	8,785	7,601	16,836	1,774	8,000	4,83

				REPI	RESENT	LATIA1	E IN C	ONGRE		
			First	Distric	t-Con	tinued		2nd Dist.	Third	Distri
	COUNTIES	Frank Pierce First Choice Votes	Frank Pierce Second Choice Votes	Frank Piere Total First and Second Choice Votes	Daniel Landon First Choice Votes	Daniel Landon Second Choice Votes	Daniel Landon Total First and Second Choice Votes	Lindley H. Hadley	Albert Johnson	A. V. Frwestt
.	Adams									
	Asotin									
	Benton									• • • • • • • • • • • • • • • • • • • •
,	Clallem		l					851		
	Clarke								8,979	1,042
	Clarke Columbia Cowlitz	•••••	•••••	• • • • • • • • • • • • • • • • • • • •			• • • • • • •	• • • • • • •	1,563	550
3	Douglas	• • • • • • · ·	'						1,000	
)	Ferry			• • • • • • • • • • • • • • • • • • • •						
	Franklin	•••••	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •		• • • • • • •	• • • • • • • • • • • • • • • • • • • •		
3	Grant									
!	Grays Harbor								5,291	1,850
5	Island	•••••		·····	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	1.157		
1	Jefferson King Kitsap Kittitas	727	2,164	2,891	7,960	6,888	14,888 848	8,895		
3	Kitsap	162	481	598	241	607	848			
	Klickitat	• • • • • • • • • • • • • • • • • • • •		• • • • • • •			•••••			
.	LewisLineoln					1			8,827	1,513
	Lincoln			• • • • • • • •			• • • • • • •			
	Okanogan								555	180
;	Pacific								2,808	456
:	Incoin Mason Okanogan Pacific Pend Orelle Perce San Juan Skagit Skagit		• • • • • • •			• • • • • • • • • • • • • • • • • • • •	• • • • • • •		10 040	9,689
ı	San Juan							821	12,842	5,00
	Skagit							8,199		····
1	Skamania Snohomish Spokane	• • • • • • •	• • • • • • •	• • • • • • •	•••••	• • • • • • •	• • • • • •	K 497	444	106
	Spokane				::::::					
	Stevens									
	Thurston Wahkiakum							1	2,739	740 84
	Walla Walla Whatcom								2,789 470	
	Whatcom	• • • • • • •						5,467		•••••
	Whitman	• • • • • • •	• • • • • • •	•••••						
1										
- 1	Totals	989	2,595	8.484	8,191	6,990	15.181	20,980	32,998	15,705

				REPE	ESENT	IVITA?	IN O	ONGRE	88	
					Fo	ourth D	strict			
	COUNTIES	William L. La Follette First Choice Votes	William L. LaFollette Second Choice Votes	Willam L. LaFollette Total First and Second Choice Votes	Harry W. Hale First Choice Votes	Harry W. Hale Second Choice Votes	Harry W. Hale Total First and Second Choice Votes	Stephen J. Harrison First Choice Votes	Stephen J. Harrison Second Choice Votes	Stephen J. Harrison Total First and Second Choice Votes
1	Adams	459	122	681	158	240 188	892 180	184 24	178	<b>807</b> 119
l	Benton	848 622	62 840	410 962	47 181	188 416	180 547	584	95 <b>29</b> 0	874
l	Chelan		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •			
l	Clarke									
Ì	Columbia	118	289	887	15	212	227	24	65	89
١	Cowlitz	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •	•••••	•••••		•••••
l	Perry									
l	Franklin	461	97	558	100	196	805	87	120	157
١	Garfield	116 754	79 196	195 950	18 249	47 406	65 655	36 80	66 212	102 292
١	Grays Harbor									
١	Island					• • • • • • •		• • • • • •		
١	Jefferson King		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • •	• • • • • • •	• • • • • • •		
l	Kitsap									
l	Kittitas	846 987	656 281	1,502 1,268	1,198	491	1,689 809	241 286	560 360	801 596
I	Klickitat	967	281	1,268	279	530	809	280	800	990
١	Lincoln									
١	Mason			• • • • • • •				• • • • • •		
١	Okanogan Pacific	• • • • • • •	• • • • • • • •	• • • • • • • •		• • • • • • • •				
l	Pend Orellle									
l	Pierce	• • • • • • •	• • • • • • • •	• • • • • • •						• • • • • • •
l	San Juan Skagit	• • • • • • • •	• • • • • • •					• • • • • • •		
ł	Skamania									
١	Snohomish		• • • • • • •			• • • • • • •		• • • • • • •	• • • • • • • •	• • • • • • •
١	Spokane	• • • • • • •	• • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	••••		
	Thurston									
Ì	Wahkiakum				ļ <u>.</u>					
l	Walla Walla Whatcom	2,002	927	2,929	191	728	919	825	726	1,061
١	Whitman	2,688	829	2,962	281	982	1.168	827	907	1,284
١	Yakima	2,849	829 1,418	8,767	1,052	982 1,736	1,168 2,788	2,816	1,683	8,999
						1			l	

				REPF	resen.	rativi	E IN C	ongre	88	
			Fourt	h Distri	let—Oo	ntinued		F	ifth Di	strict
•	COUNTIES	Will H. Fouts First Choice Votes	Will H. Fouts Second Choice Votes	Will H. Fouts Total First and Second Choice Votes	Edward Parker First Choice Votes	Edward Parker Second Choice Votes	Edward Parker Total First and Second Choice Votes	Alonzo M. Murpher First Choice Votes	Alonzo M. Murphey Second Choice Votes	Alonzo M. Murphey Total First and Second Choice Votes
12845978901284597890128453790012845378	Pacific		174	188 669 142 204 148	19 42 15 79	154 52 269 580 345		141 189	120 80 211 435 165 2,155 242	261 269 269 696
	Walla Walla Whateom Whitman Yakima	1,887 181 175 2,826	1,086 478 495 3,118	2,478 654 670 5,944	165 178 782 1,671	582 898 1,318 4,869	747 1,071 2,050 6,540	7,192	3,900	11,092

			REPR	ESENT	ATIVE	IN CO	)NGRE	88	
			:	Fifth D	istrict-	-Contin	ued		
COUNTIES	Tom Corkery First Choice Votes	Tom Corkery Second Choice Votes	Tom Corkery Total First and Second Choke Votes	F. M. Goodwin First Choice Votes	F. M. Goodwin Second Choice Votes	F. M. Goodwin Total First and Second Choice Votes	Charles O. Hart First Choice Votes	Charles O. Hart Second Choice Votes	Oharles O. Hart Total First and Second Choice Votes
Adams Asotin Benton Chelan Clallam Clarke Oolumbia Cowitts Douglas Ferry Franklin Garfield Grant Grant Harbor Island Jefferson King Kittas	130	• • • • • • • • • • • • • • • • • • • •		•••••	48		817 247 56		•••••
Klickitat Lewis Lincoln Mason Okanogan Pacific Pend Orellic Pend Orellic Pierce San Juan Skagit Skamania Snohomish Spokane Stevens Thurston Wahlakum Walla Walla Whatcom Whitman	507 240 5.500	236 447 184 2,885 248	1,044	169 173 73 1,879 167		\$78 437 207 5,328 393		588 211	324 4,037 444

			REPE	LESENT	TATIVI	2 IN O	ONGRE	58	
				<b>F</b> ifth I	district-	-Contin	beur		
COUNTIES	Lloyd E. Gandy First Choice Votes	Lloyd E. Gandy Second Choice Votes	Lloyd E. Gandy Total First and Second Choice Votes	John T. Muligan First Choice Votes	John T. Mulligan Second Choice Votes	John T. Mulligan Total First and Second Choice Votes	Guy B. Groff First Choice Votes	Guy B. Groff Second Choice Votes	Guy B. Gron Total First and Second Oholes Votes
Adams	194	242	486	794	569	1.863	68	200	
Claliam		ZAZ	100	199		1,803		200	
Continuia Cowlitz Douglas Ferry	25	54 25		108 25	92 36	197 61	24 29	45 55	69 84
Franklin		20							•••••
Grant						•••••	•••••		••••••
Jefferson			• • • • • • •						•••••
Kitsap									
Klickitat Lewis Lincoln	151	212	863	159	140	290	28	59	87
Mason Okanogan Pacific		202	808	108	179	287	45	146	191
Pend Oreille	69	153	222	149	105	254	58	88	146
San Juan Skagit									
Skamania Snohomish Spokane			8,792	1 706	1,952	8,747	722		2,496
Stevens	1,874	2,418 132	208	1,796 171	186	857	48	1,776 101	146
Wahkiakum Walla Walla									
Whatcom Whitman Yakima									
Totals	2,000	8,486	5,441	8,806	8,259	6,565	1,022	2,470	3,49

					G	OVER	NOR			
	COUNTIES	Geo. A. Lee First Choice Votes	Geo. A. Lee Second Choice Votes	Geo. A. Lee Total First and Second Choice Votes	J. F. Frost First Choice Votes	J. E. Frost Second Choice Votes	J. E. Frost. Total First and Second Choice Votes	Henry McBride First Choice Votes	Henry McBride Second Choice Votes	Henry McBride Total First and Second Choice Votes
	Adams	87	116	208	22	61	83	95	159	254
1	Asotin	268	42 216	72 484	13 88	61 126	74 214	105 155	110 215	215 370
ı	Chelan	523	541	1,064	349	371	720	569	548	1,117
1	Clallam	179	225	404	206	190	396	382	317	699
ì	Clarke	1,852	1,133	2,985 162	108	298 59	401 86	568,	804 110	1,372
١	Columbia	262	291	558	21	126	147	196	266	462
1	Douglas	43	92	135	44	64	108	171	139	310
ł	Ferry	67	72	139	11	21	32	64	81	145
1	Franklin	213	89 61	302 110	18	76 13	94 19	78 51	119	197
1	Garfield	104	132	236	45	60	105	229	231	460
1	Grays Harbor	320	545	865	87	306	393	633	922	1,555
1	Island	48	89	132	139	225	364	150	173	323
1	Jefferson	6,941	7,965	191	1.339	4,719	6,058	19,302	259 10,564	736 29,866
1	King	729	611	1,340	101	320	421	1,520	875	2,395
1	Kittitas	579	435	1,014	308	369	677	471	491	962
1	Klickitat	198	245	443	35	106	141	388	290	678
1	Lincoln	614 85	638 146	1,252	173	324 69	497 90	450 243	574 373	1,024
	Mason	32	58	90	20	37	57	137	117	254
d	Okanogan	300	392	692	256	320	576	429	294	728
	Pacific	184	276	460	169	344	513	432	391	823
	Pend Oreille	252 1,296	258	505 2,741	58 439	1,225	1,664	2,987	4,001	6,988
ı	Plerce	158	178	336	17	47	64	839	197	536
ı	Skagit	595	787	1,382	91	319	410	1,636	864	2,500
9	Skamania	139	169	308	13	50	68	34	55	89
	Snohomish Spokane	789 1,804	1,364	2,158 4,157	203	765 980	968 1,174	3,384	2,385	
	Stevens	496	2,808	769	24	105	129	220	237	457
4	Thurston	836	577	1,413	81	208	289	365	443	808
	Wahkiakum	52	77	129	21	37	58	108	116	
	Walla Walla	617	632	1,249 2,926	354 233	582 490	986 723	1,619	565 1,104	1,279 2,723
	Whatcom	1,408 245	1,518	545	49	181	230	1,003	922	1,925
	Mary and Assessment	571	904	1,475	215	554	769	1,611	1,105	2,716
J	Yakima									

				GOVE	RNOR-	-Continu	16d	1.
COUNTIES	James McNeely First Ohoice Votes	James McNeely Second Choice Votes	James McNeely Total First and Second Choice Votes	Roland H. Hartley First Choice Votes	Roland H. Hartley Second Choice Votes	Roland H. Hartley Total First and Second Choice Voice	John G. Lewis First Choice Votes	Second Choice Total  Becond Choice Total  See Second Traction of Traction Total  See Second Traction Total  See Second Traction Total  See Second Traction Total  See Second Traction Total  See Second Traction Total  See Second Traction Total  See Second Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction Traction T
1 Adams 2 Asotin 3 Beaton 4 Chelan 5 Clallam 6 Clarke 7 Columbia 8 Cowiitz 9 Douglas 10 Ferry 1 Franklin 12 Garfield 13 Grant 14 Grays Harbor 15 Island 16 Kitsap 17 Kitsap 18 Kitsap 18 Kitsap 18 Kitsap 18 Kitsap 18 Kitsap 19 Kittias 20 Kilekitat 21 Lewis 22 Limeoin 23 Mason 24 Okanogan 25 Pacific 26 Pend Oralle 27 Pend Oralle 28 San Juan 29 Skagit 29 Skagit 31 Snohomish 32 Spokane 33 Stevens 34 Thurston 36 Walia Walia 36 Walia Walia 37 Whatcom 38 Whitman	411 130 130 130 130 130 130 139 *25 49 19 82; 397 66 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1,251 1	121 28 253 192 747 47 80 299 75 108 80 152 678 108 200 3,695 279 847 162 127 408 4,358 85 45 1,344 2,045 580 865 586 586 586 586 586 586 586 586 586	162 411 344 448 822 1,144 108 92 185 92 149 1,075 401 1,654 471 1,654 471 1,654 471 1,654 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 11,45 401 401 401 401 401 401 401 401 401 401	418 14,457 777 475 468 947 188 283 215 488	1.59 105 22.5 5507 282, 550 129 224 128 39 751 223 1,160 176 350 296 687 224 142; 296 687 296 687 296 687 296 687 296 687 296 687 296 687 1,161 161 183 184 185 185 185 185 185 185 185 185 185 185	280 214 479 1,212 1711 965 282 283 284 97 106 890 2,019 606 750 23,289 606 750 23,289 606 750 23,289 606 750 24,48 81,634 45,454 5,210 1,111 1,25 8,40 1,01,01 1,25 8,40 1,01,01 1,01 1,01 1,01 1,01 1,01 1,0	2,973 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 13,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 14,578 16,578 16,578 16,578 16,578 16,578 16,578 16,578 16,578 16,578 16,	25 12 12 12 12 12 12 12 12 12 12 12 12 12
Yakima	19,065	22,220	41,286		29,628		2	019

			GOV	ERNOR	-Cont	inued			EUTE	
	COUNTIES	Robert T. Hodge First Choice Votes	Robert T. Hodge Second Choice Votes	Robert T. Hodge Total First and Second Oboice Votes	W. J. Sutton First Choice Votes	W. J. Sutton Second Choice Votes	W. J. Sutton Total First and Second Choice Votes	Louis F. Hart First Ohoice Votes	Louis F. Hart Second Choice Votes	Louis F. Hart Total First and Second Choice Votes
	Adams	36 23	81 59	117 82	488 220	90	578 289	368 237	189 83	557 320
I	Benton	112	121	233	439	248	687	508	282	790
ı	Chelan	361 233	444 257	805 490	588 107	436 117	974 224	1,629 755	663 276	
l	Clarke	485	583	1,068	1,298	818	2,111	1,916	947	2,863
J	Columbia	72	59	161	251	132	383	308	174	482
١	Cowlitz	745	287	1,032	526	464	990	646	394	1,040
ľ	Douglas	65 36	100	165 63	251 134	94 70	345 204	340 181	157 82	497 263
l	Ferry	59	70	129	171	96	267	259	147	406
Ì	Garfield	38	35	73	98	54	152	123	67	190
ŀ	Grant	128	134	262	441	186	627	427	282	709
J	Grays Harbor	358	686 156	1,039	779	936	1,715	2,812	1,479	3,791
Ì,	Jefferson	110	209	266 339	111 227	95 154	206 381	359 793	251	1,044
ŀ	King	5,836	8,384	14,220	1,585	8,404	4,939	23,950	6,842	30,792
	Kitsap	563	807	1,370	237	308	545	1,682	719	2,401
l	Kittitas	202 190	267 188	469 878	475 204	362 228	837 432	980 392	466 445	1,446
ı	Lewis	594	645	1,239	941	682	1,623	2,068	978	3,046
į	Lineoln	78	114	192	730	204	934	554	322	876
į	Mason	92	93	185	87	88	175	345	117	462
ì	Okanogan	137 272	219	356 497	600 545	349 364	949	949 439	443	1,392
1	Pacific	98	112	210	323	172	495	370	278	648
ß,	Pierce	1,730	2,641	4,371	1,368	2,649	4,017	11,777	2,567	14,844
Ì	San Juan	99	112	211	53	73	126	874	1.86	560
ĺ	Skagit	581	772	1,303	919	709	1,628	2,542	784	3,326
I	Shamania Snobomish	1,542	2,369	3,911	1,021	1,184	2,205	4,236	1,885	6,121
1	Spokane	1,268	2,198	3,466	7,450	2,442	9,892	4,878	4,512	9,390
ı	Stevens	73	148	221	452	242	694	560	340	900
1	Thurston	252	313	.565	384	427	811	1,789	548	2,837
J	Wahkiakum	227 386	100 410	327 796	946	53 687	1,633	1,386	105 854	2,240
ſ	Whateom	732	949	1,681	1,316	1,348	2,664	3,434	1,350	4,784
ı	Whitman	109	265	874	1,404	640	2,044	1,709	683	2,392
ĺ	Yakima	326	522	848	2,095	1,221	3,316	2,118	1,819	3,432
1	Totals	18,362	25,227	43,589	29,400		51,389	77,979	31,957	-

		1	JEUTE	NANT	GOVE	RNOR-	Contin	ber	
COUNTIES	Arthur W. Davis First Choles Votes	Arthur W. Davis Second Choice Votes	Arthur W. Davis Total First and Second Choice Votes	Geo. H. Baker First Choice Votes	Geo. H. Baker Second Choice Votes	Geo. H. Baker Total First and Second Choice Votes	Loren H. Brewer First Choice Votes	Loren H. Brewer Second Choice Votes	Loren H. Brewer Total First and Second Choice Votes
Adams	267	254	521	108	210	812	56	185	191
Asotin	124	136	260	88	147	229	22	84	106
Benton	394	407	801	215	849	564	118	208	821
Chelan	625	940	1,565	528	925	1,458	877	459 300	886 400
Clallam	268	413	681	260 1,098	460 1,678	720 2,771	160 502	828	1,330
Columbia	1,050	1,155	2,205	162	206	368	89	116	1,850
Columbia	486	497	983	478	579	1.057	262	881	681
Douglas	185	192	377	91	195	286	60	125	186
Ferry	101	102	203	74	117	191	81	86	117
Franklin	213	188	401	80	189	278	68	104	167
Garfield	80	90	170	61	88	149	20	48	61
Grant	322	299	621	218	296	509	129	199	3,461
Grays Harbor	661	1,378	2,039	551 210	1,871 266	1,922 476	2,168 99	1,998 174	278
Jefferson	219 255	421	477 676	204	506	710	195	2,0	465
King	10,744	12,947	23,691	5.814	14,849	20,668	1.867	9,189	13.046
Kitsap	1,274	1,070	2,344	505	1,356	1,881	480	786	1,210
Kittitas	478	674	1,152	565	685	1,250	199	:67	566
Klickitat	204	427	631	927	288	1,215	121	465	580
Lewis	1,095	1,382	2,477	708	1,185	1,843	555	915	1,470
Lincoln	354	328	682	197	842	589	100	200	300 268
Mason	105	169 611	274	121 404	208 602	324 1,006	92 125	176 302	427
Okanogan Pacific	481 313	708	1,092	404	741	1,145	271	558	82
Pend Oreille	353	279	632	188	252	890	80	184	21
Pierce	4,352	6,497	10,849	2,010	5.721	7,761	1,366	4,768	6,184
San Juan	182	199	381	156	261	417	106	167	275
Skagit	869	1,358	2,227	888	1,740	2,578	461	804	1,26
Skamania	62	115	177	182	126	808	40	75	111
Snohomish	2,575	2,853	5,428	1,664	2,612	4,276	1,231	2,104	3,38
Spokane	7,756	3,574	11,330	2,121	5,179	7,800	1,298 158	2,825 238	4,113
Stevens	344 497	361	705	271 370	872 885	648 1,205	641	1,073	1,71
Thurston Wahkiakum	98	864 134	1,361	168	149	817	66	1,0/3	15
Walla Walla	1,041	987	2,028	724	1,149	1,878	477	656	1,133
Whatcom	1,660	1,979	3.639	1,196	2,171	8,367	787	1,508	2,290
Whitman	756	1,070	1,826	520	1,015	1,585	309	557	866
Yakima	1,661	1,861	8,522	1,405	1,719	8,124	822	1,151	1,97
Totals	42,643	47,355	89,998	25,856	51,079	76,985	17,898	88,907	51,800

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	kamania	38	72	110	52	1,188	2,150	181	351	532 29
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	pokane	1,209	2,250	8,459	4,816	3,657	7,973	1,040		1,404 31 3,842 32
	tevens	132	218 1,005	350	335 185	333	668			208 38
	hurston	418 66	1005	1,423	93	541 124	726	62	326	388 34
	Valla Walla	352	596	948	542	835		84	74	108 35
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	Whitman	365 1,825	615 1,286	980 3,111	550 724	1,200	1,359	342 145	282	427 38
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	Totals	-		158,887			30,674	108,130	1

		SUP	ERINT	ENDEN	T OF	PUBLI	CINST	RUCTI	ON-C	ontinue
	COUNTIES	M. E. Durham First Choice Votes	M. E. Durham Second Choice Votes	M. E. Durham Total First and Second Choice Votes	Ruth C. Hoffman First Choice Votes	Ruth O. Hoffman Second Choice Votes	Ruth C. Houman Total First and Second Choice Votes	DeFore Cramblitt First Choice Volus	DeFore Cramblitt Second Choice Votes	DeFore Cramblitt Total First and Second Choice Votes
	Adams	386 75	194 117	580 192	186 96	371 218	557 314	29	112	
l	Benton	362	323	685	299	580	879	16 58	172	
l	Chelan	691	853	1,544	761	1,127	1,888	192	487	230 679
ı	Clarks	326	836	662	324	606	930	68	244	312
l	Clarke	1,716	1,164	2,880	914 102	1,936	2,850	205	903	1,108
ı	Cowlitz	624	573	1,197	612	648	1,260	37	116	
l	Douglas	131	197	328	159	287	446	151 34	382 109	
l	Ferry	92	99	191	102	166	268	17	53	
ı	Franklin	145	166	311	96	209	865	81	137	
l	Garfield	81 252	73 292	154 544	271	109 451	148	9	54	63
l	Grays Harbor	1,593	1,333	2,926	1,220	2,195	3,415	73	184	257
l	Island	195	252	447	203	415	618	339 43	1,057	
ı	Jefferson	397	396	793	219	633	852	40	111 254	
	King	17,977	11,341	29,318	6,374	15,011	21,385	1,429	7,579	
	Kitsap	1,145 535	962 679	2,107	1,138	1,752	2,379	154	593	747
	Klickitat	300	402	702	395	619	1,718	148	614	762
	Lewis	1,143	1,049	2,192	1,106	1,627	2,733	96 450	296	-
	Lincoln	317	297	614	295	504	799	66	1,056	
	Mason	227 467	166	393	156	285 794	441	29	107	
	Okanogan Pacific	743	644	1,111	412 478	1,004	1,206	79	284	
	Pend Ore'lle	150	236	386	238	404	642	120	398	518
	Pierce	4,455	5,392	9,847	3,716	7,525	11,241	1,321	130	172
	San Juan	278	182	460	137	360	497	44	3,349 134	
	Skagit Skamania	1,408	1,211	2,619 227	1,023	1,908	2,931	214	792	
	Snohomish	2,631	2,409	5,040	1,866	3,583	5,449	28	87	115
	Spokane	4,020	4,223	8,243	2,641	6,702	9,343	549	1,489	2,038
	Stevens	303	343	646	311	496	807	795 79	2,541	3,336
	Thurston	1,537	761	2,298	725	1,473	2,198	150	254	333
	Wahkiakum Walla Walla	130 615	1,318	270 1,933	120 418	210 1,559	330	30	708 80	COL
	Whatcom	2,405	1,835	4,240	1,658	2,998	1,977	139	708	
	Whitman	835	946	1,781	619	1,348	1,656	349	1,252	1,601
	Yakima	1,364	1,541	2,905	1,875	2,582	3,957	164 269	545	709
	Totals	50,282	43,383	93,665	31,514	68,837	95,851	8,086	28,520	36,600

Adams Asotin Benton Chelan Clallam Clarke Sowilit Douglas Ferry Franklin Garfield Grant Grays Harbor Island Jefferson King Kitsap Kitthas Kitskap Sittitas Lincoln Mason Okanogan Pacifie Perre San Juan Skagit Skamania Skagit Sanbomish Staffield Schoolin Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Staffield Sta	STATE INSURANCE COMMISSIONE
Asotin Benton Chelan	H. O. Fishback Calvin E. Vilas
Thurston	864 168 859 142 9877 896 2,275 856 3,596 1,218 8890 186 8271 128 8890 186 8271 128 4877 169 229 64 8115 358 4,559 1,450 702 282 1,089 450 702 282 1,089 450 1,087 14,928 2,571 1,266 1,684 587 1,684 587 1,684 587 1,687 1,888 1,080 1,887 1,889 5,480 1,887 288 4,880 5,480 1,887 288 4,880 5,480 1,887 288 1,911 2,408 1,911 2,408 1,916 4,977 5,911 2,408 1,916 4,977 2,916 4,977 322 141 5,911 2,408 1,916 4,977 2,916 4,977 322 141 5,911 2,408 1,916 4,977 2,980 5,480 1,916 4,977 2,980 8,46 5,319 1,832

## DEMOCRATIC TICKET.

			UNIT	(ED	RI	PRES	ENTAT	IVE IN	CONG	RESS
		ast	STA' SENA		lst Dist.	2: Dist	nd :riet	3rd Dist.	6th Dist.	5th Distric
-	counties	Total Number of Votes Cast in Each County	Robert Bridges	George Turner	George F. Cotterill	Frances O. Axtell	Lindley H. Hadley	George P. Fishburne	Chas. W. Masterson	G. O. Dill
1 2 3 4 5 6 7 8 9 0 111 12 113 1 14 15 16 17 8 12 22 23 24 25 27 28 28 34 38 38 38 38 38 38 38 38 38 38 38 38 38	Adams Asotin Benton Chelan Clallam Clarke Columbia Cowlitz Douglas Ferry Franklin Garfield Grant Grays Harbor Island Jefferson Kinga Kitstap Kittitas Kilckitat Lewis Lincoln Mason Okanogan Pacific Pend Orelle Pierce San Juan Skagit Skamania Snohomish Spokane Stevens Thurston Wahkiakum Walia Walia Whitman	451 198 412 444 166 869 412 207 844 701 336 138 882 571 122 41 9,653 833 652 177 77 940 446 661 239 242 3,458 572 1,228 3,317 1,228 3,317 1,228 3,317 1,228 1,349 9,811	797 78 68 68 69 69 69 60 60 60 60 60 60 60 60 60 60 60 60 60	487 224 104 284 3166 66 23 4,142 115 481 115 481 180 1,880 1,880 1,880 1,880 1,880 1,980 2,480 2,480 2,490 2,490	5,484	29 11 11 86	12	880 671 286 172 2,752 86	232 984 284 415 141 1,018	765 554 211 2,789 1,085
89	Yakima	989 85,562	239 9,628	20,002	5,719	881	16		5,018	7,040

## DEMOCRATIC TICKET—Continued.

		GOVE	RNOR	LIEUT. GOV.	SEC. OF STATE	STATI TREAS URER	3-
	COUNTIES	William Edwin Cass	Ernest Lister	Thomas Lally	J. M. Tadlock	Geo. J. Galvin	
1 2 8 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24 25 25 27 28 28 28 28 28 28 28 28 28 28 28 28 28	Adams Asotin Benton Chelan Clarke Columbia Cowlitz Douglas Ferry Franklin Garfield Grant Grays Harbor Island Jefferson King Kitsap Kittitas Kilekitat Lowis Lincoln Mason Okanogan Pacific Pend Oreille Pierce San Juan Skagit Skamania Snobomish Spokane Stevens Thurston Wahkiakum Walia Walia Whatcom Whitman Yakima	423 118 228 229 240 200 622 1001 1005 5 78 651 1,0011 633 160 1011 633 160 1011 633 160 1011 633 160 1011 633 160 1011 633 160 172 183 183 183 183 183 183 183 183 183 183	883 165 889 889 180 125 816 176 689 205 121 221 450 164 167 1710 823 2,780 172 208 2,780 172 208 2,780 172 172 173 174 175 176 177 170 177 170 170 170 170 170 170 170	821 148 275 345 1117 289 289 177 629 498 244 109 296 7,018 250 428 143 697 7750 288 496 171 189 2,765 885 2,723 885 2,723 886 885 2,723 886 814 814 815 816 817 817 817 817 817 817 817 817 817 817	804 140 273 841 104 225 4190 614 473 242 104 2294 304 4224 304 2294 304 481 167 191 2,638 445 87 841 2,670 658 801 19 920 604 1,408	806 150 263 342 112 220 277 177 606 472 225 110 291 395 6,541 290 422 147 609 715 220 451 172 189 2,704 481 883 804 2,920 2,820 2,820 481 172 189 2,704 481 172 189 2,704 481 172 189 2,704 481 172 172 172 173 174 175 175 177 177 177 177 177 177 177 177	1 2 3 4 4 5 6 6 7 8 9 100 111 12 13 14 15 16 17 18 19 20 22 23 24 25 5 26 29 30 31 32 33 34 4 35 36 37 38 39
	Totals	8,794	28,620	26,820	25,841	25,765	

### DEMOCRATIC TICKET-Continued.

		STATE AUD.	ATTY GEN.	COM. OF PUBLIC LANDS	SUPT. OF PUBLIC INST.	STATE INS. COM.
	COUNTIES	Otto A. Oase	Henry Alberts McLean	Robert E. McFarland	J. H. Morgan	у. н. нетес
Benton Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Chelan Ch	elle	9 498 2 88 2	5 15 12 14 16 48 66 52 100 10 17 3 18	1 12 8 8	309 137 274 314 98 225 252 434 218 100 272 400 273 400 132 614 7115 271 489 162 1,473 473 473 474 474 475 477 477 478 478 478 479 479 479 479 479 479 479 479	2774 132, 249 300 95 225 152 255 152 433 218 98 257 874 87 181 500 254 451 148 173 2,387 37 414 79 2,380 868 287 14 889 909 1,277
	als	2,572	2,506	854	24,550	28,265

### PROGRESSIVE TICKET.

			U. S.	15	EPRE:	enta NGRE	TIVE I	N		LIEUT
		ast	SEN.	1st Dist.	2nd Dist.	8rd Dist.	4th Dist.	5th Dist.	GOV.	GOV.
	COUNTIES	Total Number of Votes Cast in Each County	Walter J. Thompson	George F. Ootterill	Mrs. Frances O. Axtell	W. F. Ferguson	Нагту W. Hale	John T. Mulligan	James E. Bradford	A. W. Davis
1 2 8 4 5 6 7 8 9 0 10 1 12 13 14 5 16 7 18 9 10 1 12 22 22 22 22 22 22 22 22 22 22 22 2	Adams Asotin Benton Chelan Clarke Columbia Cowlitz Douglas Ferry Franklin Garfield Grant Grays Harbor Island Jefferson King Kittsap Kittitas Kilekitat Lewis Lincoln Mason Okanogan Pacific Pierce San Juan Skagit Skamania Snohomish Spokane Stevens Thurston Wahkiakum Walla Whitman	20 00 72 55 18 80 11 00 11 93 11 11 11 11 11 11 11 11 11 11 11 11 11	5 2 8 1 1 1 5 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17	1 16 1 1 58				2 2 1 1 1 2 5 8 2 1 1 1 1 5 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25
10	Totals	469	296	17	95	8	8	3	1 825	34

## PROGRESSIVE TICKET—Continued.

		SEC. OF STATE	STATE TREAS	STATE AUD.	ATT'Y GEN.	OOM. PUB. LANDS	SUPT. PUB. INST.	STATE INS. COM.	
	COUNTIES	Frank A. Rust	George J. Galvín	Otto Case	Henry Alberts McLean	Joe Smith	Joseph K. Hart	I., I., Snow	
1	Adams	2			2	ļ	1	1	1
2 8	Asotin	• • • • • • • •		[					2
4	Chelan	5			5		5	4	1
5	Clallam	2			2		2	2	
6	Clarke	2			ī		l ī	2	
7	Columbia	ī			ī	1	l ī	1 1	
3	Cowlitz					1	ļ	.	
	Douglas	2			1		2	3	)
<b>)</b>	Ferry							.	1
ιl	Franklin		1		1		1	1	1
2	Garfield			<b></b>					1
3	Grant	4	1		5		6	5	1
4	Grays Harbor	2			8		. 8	8	1
١.	Island		<b></b>		<u>.</u>	ļ		.	1
3	Jefferson		····		1.1	1	i 1	1 1	
	King	109	16	25	106 8	22	89	87	
3	Kitsap	7 8			1 2		7 8	3	1
<b>;</b>	Klickitat	li			i	·····	. 3	1	1
íl	Lewis	l i			li		·1 I	1 *	
	Lincoln	i			l i		i	1	1
	Mason	•	·····					1 *	
	Okanogan					l			1
5	Pacific	2			1	1	. 1	1	1
3	Pend Oreille				ī		. î	1	
'n	Pierce	51			56		. 51	48	ï
3	San Juan	1			1		. 1	1	1
)	Skagit	15	8	2	15	8	15	16	
)	Skamania								-\
l	Snohomish	20	4	2	22	8	19	18	į
2	Spokane	14		1	16	• • • • • •	. 17	12	1
3	Stevens	2	• • • • • • • •		2		. 2	2 8	١
4	Thurston	8		• • • • • • • •	2		. 3	8	ļ
5	Wahkiakum	1 1	· · · · · · · · · · · · · · · · · · ·	• • • • • • • •	l i		- 1	1	- 1
8	Walla Walla	86			40		. 1	1 1	ļ
	Whitman	2			1 20		. 33		- 1
8	Yakima	ı			•		: 1	1 1	1
<b>"</b>	**************************************						. 1	1 1	_
- 1									

## SOCIALIST TICKET.

				8. ator	Co	ng.	Sen 28	ate ator rd st.		ver- or	Go	out. Ver- or		retary State
	COUNTIES	Total Vote	Bruce Rogers	Scattering	R. J. Olinger	Scattering	O. A. Johnson	Scattering	L. E. Katterfeld	Scattering	Katherine H. Hodgins	Scattering	James Grant	Scattering
1 2 8 4 5 6 7 8 9 10 112 18 14 15 6 7 18 9 10 112 18 14 15 16 17 18 19 22 22 22 25 25 25 25 25 25 25 25 25 25	Adams Asotin Benton Chelan Clalam Clarke Columbia Cowiltz Douglas Ferry Franklin Garfield Grant Grays Harbor Island Jefferson King Kitsap Kittitas Kilekitat Lewis Lincoln Mason Okanogan Pacific Pend Oreilie Pierce San Juan Skagit Skamania Skamania Skohomish Spokane Stevens Thurston Walla Walla	27	61	76	10	11	16	2	18	22	11	2	4	1 2 2 2 2 2 2 3 3 3 3
87 88 89	Whatcom Whitman						10					2	19	

## SOCIALIST TICKET—Continued.

		ate eas.		ate litor		t'y eral	Pu	m'r f blic nds	Sup O Pub Ins	folic		om'r
COUNTIES	Mary Stevenson	Scattering	E. E. Owsley	Scattering	M. J. Schwartz	Scattering	Frank Cort	Scattering	Frances C. Sylvester	Scattering	F. J. McKay	Scattering
Asotin	4	6	4	5	4	1	4	2	4	7	4	1
		6	16	 5	18	 1	16	2	17	7	14	1

#### NON-PARTISAN JUDICIARY TICKET.

				JUDGE	S OF ST	PATE S	UPREM	E COUR	T	
		Cast		Six-	Year Te	rm	7	Four Y	ear Terr	m
	COUNTIES	Total Number of Votes in Each County	Emmett N. Parker	Mark A. Pullerton	George E. Morris	Charles E. Claypool	Edgar G. Mills	J. Stanley Webster	Elihu F. Barker	
300000000000000000000000000000000000000	Adams Asotin Benton Chelan Clailam Clailam Clailam Clarke Columbia Cowlitz Douglas Ferry Franklin Garfield Grant Grays Harbor Island Jefferson King Kitzap Kittitas Kilekitat Lewis Lincoln Mason Okanogan Pacific Pend Orelle Pierce San Juan Skagit Skamania Snohomish Spokane Stevens Thurston Wahljakum Walla Walla Whatcom Whitinan	4,348 3,861 2,487 6,465 2,564 1,281 3,728	721 406 1,162 2,223 925 8,056 520 575 827 978 8,199 2,060 1,178 3,422 1,661 1,607 760 16,809 2,656 8,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,216 3,2	690 403 1,054 2,110 2,716 1,239 785 543 525 322 881 3,584 608 940 34,857 1,07 3,13 1,07 3,13 1,07 3,13 1,598 1,598 1,598 1,598 1,524 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 12,690 687 13,684 687 14,575 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 687 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775 15,775	637 361 361 8,007 1,008 8,051 1,095 783 480 402 286 809 3,058 1,285 3,040 1,152 576 1,472 1,472 1,472 1,525 2,961 3,040 1,152 2,761 3,146 2,761 3,49 4,22 2,349 4,920 2,836 2,926 3,040 1,152 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1,472 1	507 283 598 1,349 954 2,983 378 1,086 591 480 344 1,128 25,108 1,424 1,128 2,610 768 552 1,148 1,292 1,906 7,907 1,906 7,907 1,483 2,817 1,483 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2,448 2	782 405 992 1,823 993 3,182 554 492 554 492 554 2,155 948 2,801 1,719 1,060 2,786 1,573 1,567 1,394 460 3,013 3,013 3,013 3,013 3,013 3,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,013 4,01	801 359 905 1,819 994 3,040 517 1,166 806 608 561 349 900 2,990 2,990 2,499 1,585 1,586 1,586 1,587 11,246 847 11,622 1,717 12,468 847 11,623 2,308 6,117 14,079 1,477 2,146 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308 2,308	431 286 0 1,355 1,658 782 457 253 314 100 535 2,287 406 494 10,502 1,221 1,211 1,211 1,211 1,211 1,211 1,211 1,211 1,211 1,211 1,211 1,211 1,211 1,213 1,243 2,87 9,168 1,142 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 1,243 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	Yakima	9,147	124,218	124,103	119,897	2,779 87,186	4,273	3,648 117,580	70,365	93

^{*}Recount—Number of marked ballots. †Recount—Returns show only total marked for six-year term, state supreme court.

## NON-PARTISAN JUDICIARY—Continued.

			on and son	Douglas and Grant		P	acific and	l Wahkia	kum
	COUNTIES	John R. Mitchell	D. F. Wright	Sam B. Hill	W. E. Southard	H. W. B. Hewen	J. J. Brumbach	Solomon Smith	Edward H. Wright
1.	Adams								
					• • • • • • • • •		• • • • • • • •	•••••	• • • • • • • •
1:	Asotin	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •				• • • • • • • •	••••••	• • • • • • • • • • • • • • • • • • • •
1:	Benton Chelan	•••••		ļ	•••••		• • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •
L	Clarke	• • • • • • • •			, <b></b> .		• • • • • • • •		• • • • • • • • • • • • • • • • • • • •
1.	Clarks	• • • • • • •			, • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •	
13	Columbia	• • • • • • • •					• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •
L.	Comition							• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
13	Dougles						• • • • • • • • •		
1:	Oowlitz	• • • • • • • • •		1,000	225				• • • • • • • •
1:	The plan								• • • • • • • • • • • • • • • • • • • •
	Franklin	• • • • • • • •						• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
1.	Garneid		• • • • • • • •				• • • • • • •	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •
L.	Grant			1,000	828		• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
13	Island		• • • • • • • •					• • • • • • • • •	
1	Tofferson							• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
1:	Jefferson King				• • • • • • • •			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
	Kitsap	• • • • • • •	• • • • • • • •	• • • • • • • • • •	• • • • • • • • •		• • • • • • • • •	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •
1:	Kitsap		• • • • • • • •			· · · · · · · · ·		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
	Kittitas Klickitat				• • • • • • • •			• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
1:	Kilckitat	• • • • • • • •	• • • • • • • •	!····	• • • • • • • •	!		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
	Lewis	• • • • • • •			• • • • • • • •		• • • • • • • •	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •
1:	Lincoln			• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •
1:	Mason	905	1,027				• • • • • • •	• • • • • • • • •	• • • • • • • •
13	Mason			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •			464	907
1:	Pard Onella	• • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •	1,901	302	200	, av
1:	Pena Oremie								• • • • • • • • • • • • • • • • • • • •
1:	Pieros	• • • • • • •			• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •		• • • • • • • • • • • • • • • • • • • •
13	Pierce San Juan Skagit			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •		• • • • • • • •		• • • • • • • • • • • • • • • • • • • •
L	Gramania	• • • • • • • •						• • • • • • • • • • • • • • • • • • • •	
L	Skamania Snohomish	• • • • • • • •		J		• • • • • • • •		• • • • • • • •	
1	Spokane	• • • • • • • • • • • • • • • • • • • •			• • • • • • • •			• • • • • • • • • • • • • • • • • • • •	
L	Chommana	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •	• • • • • • • •	
	Stevens	0 504	9.00=		• • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
1.	Thurston Wahkiakum Walla Walla	8,068	<b>∂,2⊮</b> 0		•••••	100			283
1.	Wanklakum	• • • • • • •			• • • • • • • • •	190	> × 5	Z49	200
1.	Wana Wana	• • • • • • • •			• • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	· • • ····
	Whatcom								· • • · · · ·
	Whitman								
	Yakima		•••••	[· · · · · · · · ·		• • • • • • • •			ļ <b>.</b>
1	m-4-1-	4 40-	4.045	0 500					
1	Totals	4,496	4.348	2,566	1,056	1,611	950	658	1,090

## NON-PARTISAN JUDICIARY-Continued.

	В	Benton, Franklin and Adams				Stevens and Pend Oreille			Ferry and Okanogan		
COUNTIES	Edward A. Davis	John Truax	G. W. Hamilton	M. M. Moulton	Daniel H. Carey	F. Leo Grinstead	J. A. Rochford	E, K. Pendergası	Chas. H. Neal		
Adams	299	1,079	47	38							
Asotin		1,010	2.	90							
Benton	225	213	604	1,098							
Chelan	240	210	001	1,000							
Clallam											
Clarke				******		7					
Columbia											
Cowlitz											
Douglas											
Possess								621	617		
Ferry		*******							011		
Franklin		184	75	96					******		
Garfield											
Grant											
Grays Harbor											
Island											
Jefferson											
King											
Kitsap											
Kittitas											
Klickitat											
Lewis											
Lincoln											
Mason											
Okanogan								1,896	1,649		
Pacific											
Pend Oreille						383	279				
Pierce											
San Juan											
Skagit											
Skamania											
Snohomish											
Spokane											
Stevens					990		702				
Stevens	******		******		000	1,001	100				
	******										
Walla Walla											
Whatcom											
				******	******						
Yakima		******		******				*****	4422400		

### NON-PARTISAN JUDICIARY—Continued.

		Skan	dtat, nania lowlits	Jeffer- son, Island and Challam	Columbia, Garfield and Asotin	Skagit and San Juan
	COUNTIES .	Willam T. Darch	B. L. Hubbell	John M. Raiston	Ohester F. Miller	Augustus Brawley
1 2 8 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 12 22 24 25 27 28 28 28 28 28 28 28 28 28 28 28 28 28	Adams Asotin Benton Chelan Clallam Clarke Columbia Cowlitz Douglas Ferry Franklin Garfield Grant Grant Harbor Island Jefferson King Kittap Kittitas Kitetat Lewis Lincoln Mason Okanogan Pacific Pend Oreille Pierce San Juan Skagit Skamania Snohomish Spokane Stevens	1,426	1,265	1,787	434	2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3
84 85 86 87 88 89	Thurston Wahkiakum Walla Walla Whateom Whitman Yakima Totals.					

## JOINT STATE SENATORIAL.

	Ol Ferr	State Senator 1st District Okanogan, Ferry, Douglas and Grant			State Senator 10th District Garfield, Columbia and Asotin			State Senator 11th District Adams, Franklin and Walla Walla			
	Repu	blican	Dem.	Rep.	Dem	ocrat	Re	epublic	an	Den	
COUNTIES	W.A. Bolinger	M. B. Howe	J. W. Faulkner	Elgin V. Kuykendall	W. L. Howell	C. J. Thronson	Elbert M. Chandler	W. O. Miller	O. T. Cornwell	E. G. Cox	
Adams							222	563	197	290	
Asotin				522	40	0					
Benton											
Chelan											
Clallam								*****			
Clarke								*****		*****	
Columbia					0						
Cowlitz		******		+++++							
Douglas	. 109	816	4.40								
Ferry	. 190	279	442			*****	000	100	101	901	
Carfold				000	00		301	180	101	221	
Grant	1 019	979	979	828	23	0					
Franklin Garfield Grant Grays Harbor	1,012	912	212					*****			
Island						*****					
Jefferson											
King											
Kitsap											
Kittitas											
Klickitat											
Lewis											
Lincoln											
Mason Okanogan Paelfic									*****	*****	
Okanogan	1,562	1,154	426								
Pacific									*****	*****	
Pend Oreille			*****		*****	*****					
Pierce											
San Juan											
Skamania											
Snohomish											
Spokane											
Stevens											
Thurston											
Wahkiakum											
Walla Walla											
Whatcom											
Whitman											
Yakima				10001							
	2		3.,,,,						. 4.1.1.1		
				1,493							

## JOINT STATE SENATORIAL—Continued.

		18t Ol	te Sena h Distr nelan an Kittitas	ict id	15t Ya	te Sena h Distr kima a Benton	ict	State Senator 23rd District Mason, Island a Kitsap		
		Rep.	Demo	ocrat	Repul	olican	Dem.	Reput	olican	Dem.
	COUNTIES	B. Adams	John Ferryman	Adams	Morthland	Lum	Davis	Peter Iverson	W. Condon	Marcus M. Bowman
		J. B. A	lohn ]	J. B. A	D. V. 1	C. E. 1	н. с.	Peter	£. ₩	Marcu
 1	Adams									1
2	Asotin									,
8	Benton				707	854	987			<b></b> .
4 5	Ohelan	2,919	57	18		• • • • • • •		• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
D B	Clarke	• • • • • • •		• • • • • • •						
7	Columbia								l	
3	Cowlitz Douglas	• • • • • • •								
	Perry	• • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •		¦•••••	
<b>,</b>	Franklin	• • • • • • •	• • • • • • •	•••••	• • • • • • • •	•••••				
è	Garfield				l l				1	
В	Grant									
4	Grays Harbor			• • • • • •			• • • • • • •		580	86
5 8	Island								,	1 1
7	King									
8	Kitsap Kittitas Klickitat							2,367	2,298	222
9	Kittitas	1,874	18	12						<b></b> '
0	Klickitat									
1 2	Lewis Lincoln									
E R	Mason			}				345	452	251
4	Mason Okanogan									1
5	Pacific	1	1		i		i	1.	1	
6	Pena Oreme									
7 8	Pierce							• • • • • • • • • • • • • • • • • • • •		1
9	NKAPIT	1	1			1	1			
D	Skamania	l		!		l		l		
1	Snohomish	1			1	l			1	1
2	Spokane		l .	i		1	1			1 1
8	Thurston			• • • • • • • • • • • • • • • • • • • •					•••••	
5	W MINKINKUIN		1							
6	Walla Walla Whatcom									
7	Whatcom						ļ <b>.</b>			
8	Whitman			ļ <b></b>	F 005		*****	·····		
9	Yakima			• • • • • • •	5,081	2,326	780			

## Republican Ticket—Scattering Vote.

Lieutenant Governor	21 G 84 8 21 8	opiococción de congressioni	56 100 1 6 7
	-	nsurance Commissioner	8
Demogratic Tic	:ket—8	scattering Vote.	
U. S. Senator	77 R	epresentative in Congress	93
State Senator 4	15 G	overnor	55
Lieutenant Governor 2	20 8	ecretary of State	34
State Treasurer 3	36 S	tate Auditor 3	861
Attorney General 36	34 C	ommissioner of Public Lands 3	371
Sup't of Public Instruction	35 I1	nsurance Commissioner 1	154
Progressive Tid	:ket—8	Scattering Vote.	
U. S. Senator 1	12 8	ecretary of State	2
Representative in Congress 3	80 8	tate Treasurer	14
Governor 1	4 8	tate Auditor	28
Lieutenant Governor 1	7 C	ommissioner of Public Lands	12
Sup't of Public Instruction	8 8	tate Insurance Commissioner	1

# The Name of Each Candidate, the Number of Votes Received by Each, and the Office Sought, Is Found to be As Follows:

#### REPUBLICAN TICKET.

	1et	2d	1st and 2d
Representative in Congress—First District:	Choice.	Choice.	Choice.
W. M. Whitney	8,337	4,660	12,997
Frank E. Hammond	1,984	3,405	5,389
H. E. Foster	1,065	2,094	3,159
J. Y. C. Kellogg	2,108	3,933	6,041
James Wesley Bryan	4,963	4,095	9,058
John S. Ballaine	7,638	6,900	14,538
John F. Miller	8,735	7,601	16,336
Lincoln Davis	1,774	3,060	4,834
Frank Pierce	889	2,595	3,484
Daniel Landon	8,191	6,990	15,181
Representative in Congress—Second District:			
Lindley H. Hadley	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	20,980
Representative in Congress-Third District:			
Albert Johnson			32,998
A. V. Fawcett			15,705
	18 t	2d	1st and 2d
Representative in Congress—Fourth District:	Choice.	Choice.	Choice.
William L. LaFollette	11,695	4,776	16,471
Henry W. Hale	3,672	6,067	9,739
Stephen J. Harrison	4,364	5.257	9,621
Will H. Fouts	2,826	3,118	5,944
Edward Parker	1,671	4,869	6,540
	18‡	<b>2</b> d	1st and td
Representative in Congress-Fifth District:	Choice.	Choice.	Choice.
Alonzo M. Murphey	7.192	3.900	11,092
Tom Corkery	7,782	4,744	12,526
F. M. Goodwin	2.802	4,817	7,619
Charles C. Hart	3.707	5.135	8,842
Lloyd E. Gandy	2.003	3,438	5,441
John T. Mulligan	3,306	3,259	6,565
Guy B. Groff	1,022	2,470	3,492
	***		tet and 2d
United States Senator:	1st Choice.	2d Choice.	Choice.
			95,694
William E. Humphrey	69,715	25,979	106,778
Miles Poindexter	77,962	28,816	83,769
Enoch A. Bryan	24,868	58,901	22,688
William Alvin Spalding	3,262	19,426	21.659
Schuyler Duryee	3,540	18,119	38,421
Mrs. John B. Allen	6,877	31,544	60,100

	1st	2d .	1st and 2d
Governor:	Choice.	Choice.	Choice.
George A. Lee	23,097	25,456	48,553
J. E. Frost	5,650	14,397	20,047
Henry McBride	45,300	33,824	79,124
James McNeely	19,065	22,220	41,285
Roland H. Hartley	38,615	29,623	68,238
John G. Lewis	7,444	13,568	21,012
Robert T. Hodge	18,362	25,227	43,589
W. J. Sutton	29,400	21,989	51,389
Scattering	53	47	100
_	18 t	2đ	1st and 2d
Lieutenant Governor:	Choice.	Choice.	Choice.
Louis F. Hart		31,957	109,936
Arthur W. Davis		47,855	89,998
George H. Baker		51,079	76,935
Loren H. Brewer		33,907	51,805
Scattering	3	31	34
Secretary of State:			
I. M. Howell			
W. H. Ford			
Scattering	• • • • • • • • •		1
State Wassesser	18t	2d	1st and 2d
State Treasurer:	Choice.	Choice.	Choice.
W. W. Sherman		37,719	101,443
Calvin J. Carr		36,756	83,977
W. J. Milroy		27,083	42,047
Harold H. Stewart		43,979	73,832
J. L. Glazebrook		16,926	24,717
Scattering	1	20	21
State Auditor:			
C. W. Clausen			111.650
W. E. Cromwell			
Scattering			•
			•
Attorney General:			
W. V. Tanner			
Henry McLean			
Scattering	• • • • • • • • •		13
Commissioner of Public Lands:			
Clark V. Savidge			159 577
Scattering			
			•••
	18 <b>t</b>	2d	1st and 2d
Superintendent of Public Instruction:	Choice.	Choice.	Choice.
Josephine Corliss Preston	77,456	30,674	108,130
M. E. Durham	50,282	43,383	93,665
Ruth C. Hoffman	31,514	63,837	95,351
DeFore Cramblitt	8,086	28,520	36,606
Scattering	18	48	66
State Insurance Commissioner:			
H. O. Fishback			116 760
Calvin E. Vilas			
Scattering			3

. DEMOCRATIC TICKET.	
United States Senator: Robert Bridges	20,002
Representative in Congress—First District:  George F. Cotterill	
Representative in Congress—Second District: Frances C. Axtell	831 16 29
Representative in Congress—Third District:  George P. Fishburne	5,081 18
Representative in Congress—Fourth District: Charles W. Masterson	5,013 11
Representative in Congress—Fifth District: C. C. Dill	7,040 3
Governor: William Edwin Cass	3,794 28,620 55
Licutenant Governor: Thomas Lally	26,820 20
Secretary of State: J. M. Tadlock Scattering	25,841 34
State Treasurer: George J. Galvin	25,765 36
State Auditor: Otto A. Case Scattering	2,572 361
Attorney General: Henry Alberts McLean	2,506 417
Commissioner of Public Lands:  Robert E. McFarland	854 371
Superintendent of Public Instruction:  J. H. Morgan	24,550 <b>6</b> 5
State Insurance Commissioner:  J. H. Hemer	23,265 25

## PROGRESSIVE TICKET.

United States Senator:	
Walter J. Thompson	296
Miles Poindexter	10
Scattering	2
Representative in Congress-First District:	
George Cotterill	17
J. W. Bryan	5
Scattering	16
Representative in Congress—Second District:	
Mrs. Frances C. Axtell	95
Scattering	2
Representative in Congress-Third District:	
W. F. Ferguson	3
Scattering	3
Representative in Congress—Fourth District:	
Harry W. Hale	3
Scattering	1
-	1
Representative in Congress—Fifth District:	
John T. Mulligan	2
Scattering	3
Governor:	
James E. Bradford	325
McBride	5
Scattering	9
Think mouth 6	
Lieutenant Governor:	
A. W. Davis	34
Louis F. HartScattering	5 14
Scattering	1.4
Secretary of State:	
Frank A. Rust	202
Scattering	2
State Treasurer:	
George J. Galvin	29
Scattering	16
0444- A., 214	
State Auditor: Otto A. Case	30
W. E. Cromwell	7
Scattering	14
-	1.9
Attorney General:	- 50
Henry Alberts McLean	304
Commissioner of Public Lands:	
Joe Smith	
Clark Savidge	8
Scattering	4
Superintendent of Public Instruction:	
Joseph K. Hart	274
Josephine Preston	5
Scattering	8
State Insurance Commissioner:	
L. L. Snow	268
H. O. Fishback	1

### NON-PARTISAN JUDICIARY TICKET.

NON-I ABIIDAN S	DICIALI IICHEI.		
Judges of the Supreme Court-			
Six-Year Term:			
Emmett N. Parker		194	218
Mark A. Fullerton			-
George E. Morris			•
Charles E. Claypool			
Edgar G. Mills			-
Peter Husby			188
Scattering		• • •	34
Four-Year Term:			
J. Stanley Webster		117	580
Elibu F. Barker			
Scattering			153
beattering		• • • •	100
JUDGES OF THE SUPERIOR COU	RT-Joint Judicial Distri	CTS.	
Mason and Thurston Counties:			
John R. Mitchell	. Mason County	963	
	Thurston County	3,533	4,496
D. F. Wright	. Mason County	1.047	
	Thurston County		4,343
			-,
Scattering	Mason County	4	
Deattering	Thurston County		4
	Indiston County	• • • • •	•
Douglas and Grant Counties:	_		
	<b>D</b> . <b>G</b> .	1 700	
Sam B. Hill			
	Grant County	1,066	2,566
W. E. Southard			
	Grant County	828	1,056
	-		
Pacific and Wahklakum Countles:			
H. W. B. Hewen	.Pacific County	1.481	
	Wahkiakum County		1,611
	_		-,
J. J. Brumbach	Pacific County	852	
o. v. Diamouth	Wahkiakum County		950
	Wankiakum County		•••
Solomon Smith	Paoific County	409	
Solomon Smith			658
	Wahkiakum County	249	000
73.5		005	
Edward H. Wright			4 000
	Wahkiakum County	283	1,090
	-		
Benton, Franklin and Adams Counties:			
Edward A. Davis			
	Franklin County		
	Adams County	299	1,310
	_		
John Truax	.Benton County	213	
	Franklin County		
	Adams County		1,476
			•

G. W. Hamilton	Benton County 604	
	Franklin County 75	
	Adams County 47	720
M M Moulton	Benton County 1,098	
M. M. Moulton	Franklin County 96	
	Adams County 38	1,232
stevens and Pend Oreille Countles:		
Daniel H. Carey	Stevens County 990	
	Pend Oreille County 720	1,710
F. Leo Grinstead	Stevens County 1,337	
	Pend Oreille County 383	1,720
J. A. Rochford	Stevens County 703	
e. n. nochiota	Pend Oreille County 279	
	Tenu Oreme County 218	802
erry and Okanogan Counties:		
E. K. Pendergast	Ferry County 621	
	Okanogan County 1,896	2,517
Charles H. Neal	Ferry County 617	
	Okanogan County 1,649	
		_,_0
lickitat, Skamania and Cowlitz Coun		
William T. Darch	Klickitat County 1,599	
	Skamania County 528	
	Cowlitz County 1,426	3,553
B. L. Hubbell	Klickitat County 656	
	Skamania County 266	
	('owlitz County 1,265	
efferson, Island and Clailam Counties	:: lefferson County 1,679	
Jun M. Raiston		
	Island County 1,040	
	('lallam County 1,787	4,506
Scattering	Jefferson County	
	Island County 6	
	Clallam County 3	
Columbia, Garfield and Asotin Counties	· ·	
	Columbia County 880	)
Carbett E. Milletti I. I. I. I. I. I. I. I. I. I. I. I. I.	Garfield County 434	
	Asotin County 697	
	081	. <u>.</u> .,011
Scattering	Columbia County 5	
	Garfield County	
	Asotin County	- 1
Skagit and San Juan Counties:	Skagit County 5,097	
Augustus Drawie)	San Juan County 834	
	Lan Anan Connth	0,00

STATE SENATORS-JOIN	T SENATORIAL DISTRICT	8.	
First District—Okanogan, Ferry, Dough Republican Ticket—	as and Grant Counties:		
W. A. Bolinger			
	Ferry County		
•	Douglas County		0.050
	Grant County	1,012	2,878
M. B. Howe	.Okanogan County	1,154	
	Ferry County		
	Douglas County	816	
	Grant County		2,621
_	-		
Democratic Ticket—			
J. W. Faulkner			
•	Ferry County		
	Douglas County		1,115
	Grant County	212	1,110
Scattering	.Okanogan County		
_	Ferry County		
	Douglas County		
	Grant County		
<b></b>	-		
Tenth District—Garfield, Columbia and Republican Ticket—	Asotin Counties:		
Elgin V. Kuykendall	.Garfield County	8 <b>23</b>	
	Columbia County		- 400
	Asotin County	522	1,498
Democratic Ticket— W. L. Howell	Goodald Garage	02	
W. L. Howell			
	Columbia County		63
•	Asotin County		
C. J. Thronson			
	Columbia County	98	98
,	Asotin County	••••	
Scattering	.Garfield County	2	
•	Columbia County		4
	Asotin County		•
Eleventh District—Adams, Franklin an Republican Ticket—	d Walla Walla Counties:		
Elbert M. Chandler	.Adams County	222	
	Franklin County	387	
	Walla Walla County		1,127
W O Millon	Adama Count	563	
W. O. Miller	Franklin County	18 <b>O</b>	
	Walla Walla County	292	1.035
	wana wana county		
O. T. Cornwell		197	
	Franklin County	181	1,361
	Walla Walla County	983	_,
	-		

Democratic Ticket—		
E. G. Cox		
	Franklin County 221	
	Walla Walla County 398	909
Scattering	Adams County	
Double Line	Franklin County	
	_	
	Walla Walla County	
Thirteenth District—Chelan and Kittita Republican Ticket—	s Counties:	
-	a	
J. B. Adams		
	Kittitas County 1,874	4,793
Scattering	Cnelan County 16	
	Kittitas County	16
Democratic Ticket—		
J. B. Adams	Chelan County 18	
	Kittitas County 12	30
	Kittitas County 12	30
7-1- 17	Obite County 87	
John Ferryman		
	Kittitas County 18	75
Scattering	Chelan County 1	
	Kittitas County 11	12
Fifteenth District—Yakima and Benton Republican Ticket—	Counties:	
D. V. Morthland	Vekime County 5 031	
	- ·	F 770
	Benton County 707	5,738
C. E. Lum	•	
	Benton County 854	3,180
	<del></del>	
Scattering	Yakima County 3	
	Benton County 0	3
		_
Democratic Ticket-		
H. C. Davis	Validas Campter 700	
	Benton County 267	997
Scattering	Yakima County	
	Benton County	
Twenty-third District—Mason, Kitsap as Republican Ticket—	nd Island Counties:	
Peter Iverson	Magon County 248	
	Kitsap County 2,367	
	Island County 642	3,354
R. W. Condon	Mason County 452	
	Kitsap County 2,298	
	Island County 530	3,280
	03V	3,200
D		
Democratic Ticket-		
Marcus M. Bowman	Mason County 251	
	Kitsap County 222	
		KKO
	Island County 86	559

The Board having completed the canvass of the several joint senatorial districts, declared the nominations in the several districts in favor of the candidates who received the highest number of votes in each of the said districts as follows:

First District—Okanogan, Ferry, Grant and Douglas Counties: Republican Ticket
Tenth District—Garfield, Columbia and Asotin Counties: Republican Ticket
Eleventh District—Adams, Franklin and Walla Walla Counties: Republican Ticket
Thirteenth District—Chelan and Kittitas Counties:  Republican Ticket
Fifteenth District—Yakima and Benton Counties:   Republican Ticket
Twenty-Third         District—Mason, Kitsap and Island Counties:         Peter         Iverson           Republican         Ticket         Marcus M.         Bowman

### CERTIFICATION OF NOMINATIONS.

The Board, having canvassed the returns for the Republican ticket, wherein second choice ballots were necessary, find that the following candidates thereon have been nominated by 40 per cent. or more of the first choice votes for the respective offices set opposite their names:

These names will appear in the regular certifications of nominations, but placed in their proper order on the Republican ticket.

After adding together the first and second choice votes for candidates for all offices where said votes were cast, and neither of the candidates for said particular offices had received the required 40 per cent. of first choice votes, declared the following results, and find that the persons hereinafter named have received the greatest number of votes and are entitled to the nominations for the respective offices as follows:

### REPUBLICAN TICKET.

Representative in	Congress—First DistrictJohn F. Miller
	Congress—Second District Lindley H. Hadley
Representative in	Congress—Third District Albert Johnson
Representative in	Congress—Fourth District Wm I. I.A. Foliate
Representative in	Congress—Fifth District

United States Senator	
Lieutenant Governor	~
Secretary of State	I. M. Howell
State Treasurer	W. W. Sherman
State Auditor	C. W. Clausen
Attorney General	W. V. Tanner
Commissioner of Public Lands	Clark V. Savidge
Superintendent of Public InstructionJosep State Insurance Commissioner	

The Board, having canvassed the returns for the Democratic state ticket, find that the persons hereinafter named have received the greatest number of votes, and are entitled to the nomination for the respective offices as follows:

### DEMOCRATIC TICKET.

Representative in Congress—First DistrictGeorge F. Cotterill
Representative in Congress—Second DistrictFrances C. Axtell
Representative in Congress—Third DistrictGeo. P. Fishburn
Representative in Congress—Fourth DistrictChas. W. Masterson
Representative in Congress—Fifth District
United States SenatorGeorge Turner
GovernorErnest Lister
Lieutenant Governor
Secretary of StateJ. M. Tadlock
State TreasurerGeorge J. Galvin
State AuditorOtto A. Case
Attorney General
Commissioner of Public LandsRobert E. McFarland
Superintendent of Public Instruction
State Insurance Commissioner

The Board, having canvassed the returns for the Progressive state ticket, find that the persons hereinafter named have received the greatest number of votes, and are entitled to the nomination for the respective offices as follows:

### PROGRESSIVE TICKET.

Representative in Congress-First DistrictGeorge F. Cotterill
Representative in Congress-Second DistrictFrances C. Axtell
Representative in Congress-Third District
Representative in Congress-Fourth District
Representative in Congress—Fifth DistrictJohn T. Mulligan
United States SenatorWalter J. Thompson
GovernorJames E. Bradford
Lieutenant GovernorA. W. Davis
Secretary of StateFrank A. Rust

State Treasurer	George A. Galvin
State Auditor	
Attorney General	
Commissioner of Public Lands	Joe Smith
Superintendent of Public Instruction	
State Insurance Commissioner	

The Board, having canvassed the returns for the Socialist ticket, find that the person hereinafter named has received the greatest number of votes, and is entitled to the nomination for the respective office as follows:

#### SOCIALIST TICKET.

The name of the candidate, the number of votes received by him and the office sought, is found to be as follows:

Representative in Congress—Second District:

Note.—Other persons receiving votes on the Socialist ticket could not legally be considered by the Board, as the offices represented were for political units where the Socialists cast less than 10 per cent. of the total vote in the last preceding general election.

### CERTIFICATION OF NOMINATION.

The Board having canvassed the returns for the Non-Partisan Joint Judicial Districts find that the following candidates have been nominated by 50 per cent. or more of the total vote cast for the respective judicial offices set opposite their names and they are entitled to appear on the ballot without opposition:

#### NON-PARTISAN JOINT JUDICIAL TICKET.

Judges of the Superior Court:  Thurston and Mason Counties (Two to be elected)John R.  Thurston and Mason Counties (Two to be elected)D. F.  Wright
Judge of the Superior Court: Douglas and Grant Counties (One to be elected)
Judge of the Superior Court: Ferry and Okanogan Counties (One to be elected)E. K. Pendergast
Judge of the Superior Court:  Klickitat, Skamania and Cowlitz Counties (One to be elected
Judge of the Superior Court:  Jefferson, Island and Clallam Counties (One to be elected)John M.  Balston
Judge of the Superior Court:  Columbia, Garfield and Asotin Counties (One the be elected)
Judge of the Superior Court: Skagit and San Juan Counties (One to be elected)Augustus

The Board also finds that the following names have received the greatest number of votes and are entitled to the nomination for the respective offices as follows:

Judge of the Superior Court:

Pacific and Wahkiakum Counties (One to be elected).....H. W. B. Hewen Pacific and Wahkiakum Counties (One to be elected)....Edward H. Wright

Judge of the Superior Court:

Benton, Franklin and Adams Counties (One to be elected).....John Truax Benton, Franklin and Adams Counties (One to be elected)

......Edward A. Davis

Judge of the Superior Court:

Stevens and Pend Oreille Counties (One to be elected)....F. Leo Grinstead Stevens and Pend Oreille Counties (One to be elected).....Daniel H. Carey

The Board was called together for final action on Tuesday, October 17, 1916, and the following opinion written by the Honorable W. V. Tanner attorney general, concerning the Non-Partisan judicial vote relating to judges of the supreme court, was read, adopted, and by the Board, ordered incorporated in the minutes of said Board as follows:

October 16, 1916.

"Hon. I. M. Howell, Secretary of State, Olympia, Wash.

DEAR SIR: I am in receipt of your request for advice as to the names of candidates for the six year term for the supreme court which will be placed upon the judicial ballot.

From the returns of the county canvassing boards, it appears that the following persons received the number of votes set opposite their respective names:

Parker	124,219
Fullerton	124,103
Morris	119,890
Mills	109,701
Claypool	87,188
Peter Husby	175
Kazis Kranezanas	11
Alex Winston	7

The law provides that where any candidate or candidates receive a majority of all votes cast at the primary election for the office for which he or they are candidates, he or they shall have his or her names printed separately upon the general election ballot, and that the name of no opposing candidate shall be printed on the ballot in opposition to such candidates, but that blank spaces equalling the number of such majority candidates shall be left following each name or names.

As I construe the statute, a majority candidate is one who receives votes in excess of fifty per cent. of the votes cast for the office. The law makes no provision for a return of the number of votes cast for any particular judicial office. The returns do show, however, the total number of non-partisan judicial ballots cast in all of the counties of the state except Snohomish county; and since the number of votes cast for the six year term for the supreme court could not possibly exceed

the number of judicial ballots cast, I believe you are justified in using the return of ballots cast in those counties where other returns have not been made. In the case of Snohomish county and of King county, supplemental returns have been made under orders of court of the number of votes cast for the six year term, as follows:

 King County
 55,298

 Snohomish County
 10,796

Adding to these the numbers of judicial ballots cast in all other counties of the state, to-wit: 195,365, we have a total of not to succeed 235,459 votes cast for the supreme court; and since Parker, Fullerton and Morris have received the votes of more than fifty per cent. of those voting for the office, you are advised that the names of these three candidates should be placed upon the official ballot without the name of any candidate printed in opposition thereto, in accordance with the provisions of section 4842, Remington's 1915 Code.

Yours respectfully,

(Signed) W. V. TANNER, Attorney General."

Therefore upon the face of the returns and in conformity with the foregoing opinion the Board finds the following nominations to have been made by a majority vote and entitled to places on the ballot without opposition.

Six-Year Term:

Emmett N. Parker Mark A. Fullerton. George E. Morris Four-Year Term:

J. Stanley Webster

It is further certified that the foregoing pages numbered from four to seventy-seven inclusive, show the vote of each candidate of each political party, for each office canvassed by said state Canvassing Board, also the vote of each candidate for the office of supreme court judge of the State of Washington, also the vote for each candidate for the office of superior court judge, of the State of Washington in each of the superior court judicial districts, extending beyond the limits of a single county, also the joint districts for the office of state senator comprising more than one county; and each of the pages above referred to have been initialed by the undersigned by way of permanent identification, and are the complete record and minutes of said canvass.

There being no further business to come before the Board on motion the Board adjourned sine die.

IN WITNESS WHEREOF the undersigned as said State Canvassing Board have hereunto set their hands this seventeenth day of October, 1916.

(Signed) I. M. Howell, Secretary of State.

EDWARD MEATH, State Treasurer.

C. W. CLAUSEN, State Auditor.

## ABSTRACT OF VOTES

POLLED IN THE

# STATE OF WASHINGTON

AT THE

### GENERAL ELECTION

HELD

### NOVEMBER 7, 1916

FOR AND AGAINST

A Certain Proposed Amendment to the State Constitution and Certain Initiative and Referendum Measures,

ALSO FOR

Presidential Electors, United States Senator, Representatives in Congress, Supreme Court Judges, State Officers,
Joint State Senators and Superior Court
Judges Whose Districts Comprise More Than One
County.

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### ABSTRACT OF VOTES, GENERAL ELECTION, 1916.

			DMENT			SED INI		
COUNTIES		Total Number of Votes Cast in Each County	For Constitutional Amendment	Against Constitu- tional Amendment	For Initiative Measure No. 24	Against Initiative Measure No. 24	For Referendum Measure No. 3	Against Referendum Measure No. 3
1	Adams	2,808	575	1,406	612	1,829	332	1,542
2	Asotin	2,507	588	803	314	1,572	299	831
3	Benton	3,321	711	1,591	479	2,360	436	1,723
4	Chelan	6,606	1,740	2,652		4,486	1,053	3,041
6	ClallamClarke	3,504 9,261	2,765	1,200 2,973		1,928 5,171	655 1,932	3,26
7	Columbia	2,519	359	1,284	2,463 426	1,733	272	1,27
8	Cowlitz	3,950	856	1,717	791	2,486	507	1,85
9	Douglas	3,322	814	1,363		2,197	519	1,48
0	Ferry	1,791	446	698		1,084	340	73
11	Franklin	1,958	485	901	420	1,309	305	950
2	Garfield	1,664	335	698		1,061	192	75
13	Grant	3,135	746	1,393		2,029	500	1,54
14	Grays Harbor	11,723	2,326 355	6,662		7,587 1,276	1,837 228	6,76
15	Island	1,902	647	711	650	1,220	516	74
17	King	99,589	20,282	40,963		54,243	16,525	45,82
18	Kitsap	7,168	1,607	3,485		4,250	1,131	3,74
19	Kittitas	5,541	1,324	2,342		3,310	868	2,53
20	Klickitat	3,413	791	1,262		1,926	571	1,35
21	Lewis	10,875	2,811	4,656	2,243	7,216	1,744	5,09
2	Lincoln	5,586	1,082	2,833		3,893	604	3,07
23	MasonOkanogan	1,798 5,590	395 1,227	752 2,353		3,575	364 761	2,57
25	Pacific	4,597	1,301	2,001		3,004	862	2,19
26	Pend Orelile	2,218	466	1,075		1,487	306	1,14
7	Pierce	39,530	11,039	18,456	11,749	24,345	7,707	19,97
8	San Juan	1,455	384	640	460	796	287	65
29	Skagit	10,624	1,786	6,374	1,892	7,849	1,287	6,55
30	Skamania	1,012	250	358		494	159	37
31	Snohomish	20,732	4,324	9,705		13,249 30,556	2,846 6,891	10,87 25,88
32	Spokane	43,871 6,821	11,327	22,922		4,446	863	3,34
14	Thurston	6,829	1,690	3,122		4,196	1,310	3,29
35	Wahkiakum	967	294	317		598	153	36
36	Walla Walla	9,515	1,766	5,010	1,987	6,435	1,222	5,15
37	Whatcom	16,199	3,456	8,890	3,993	10,670	2,524	9,36
38	Whitman	11,529	2,323	5,338	1,448	8,419	1,467	5,59
39	Yakima	15,089	2,877	7,307	2,423	10,017	1,742	7,81
	Totals	392,709	88,963	180,179	98,843	245,399	62,117	196,36

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### ABSTRACT OF VOTES, GENERAL ELECTION, 1916.

		NDMEN' STITUT		PROPO REFE	SED INI RENDU	TIATIV MEAS	E AND
COUNTIES	Total Number of Votes Cast in Each County	For Constitutional Amendment	Against Constitu- tional Amendment	For Initiative Measure No. 24	Against Initiative Measure No. 24	For Referendum Measure No. 3	Against Referendum Measure No. 3
1 Adams 2 Asotin 3 Benton 4 Chelan 5 Clallam 6 Clarke 7 Columbia 8 Cowitz 9 Douglas 10 Ferry 11 Franklin 12 Garfield 13 Grant 14 Grays Harbor 15 Island 16 Jefferson 17 King 18 Kittsap 19 Kittitas 20 Kitckitat 21 Lewis 22 Lincoln 23 Mason 24 Okanogan 25 Pacific 26 Pend Orelile 27 Perce 28 San Juan 29 Skagit 30 Skamania 31 Snohomish 32 Stevens 33 Thurston 35 Walkinam 36 Walla Walla 37 Whatcom 38 Whitman 39 Yakima 39 Whitman 39 Yakima	3,504 9,281 1,791 1,968 3,182 1,791 1,968 11,723 11,902 2,200 7,168 5,541 3,413 10,876 5,541 1,793 1,497 2,218 89,580 1,456 10,624 1,012 20,732 43,871 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 6,821 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305 192 516 16,525 1,131 1,744 604 306 7,707 287 1,287 2,846 6,891 1,310 1,500 1,500 1,287 1,287 2,846 6,891 1,131 1,222 2,846 6,891 1,131 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146 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1,146 1,14	25,885 3,343 3,294 364 5,154 9,362 5,599 7,811
Totals	892,709	88,968	180,179	98,843	245,800	62,117	196,363

		PROPO	SED IN	TIATI	E AND	REFE	RENDU	M MEAS	SURES
	COUNTIES	For Referendum Measure No. 4	Against Referendum Measure No. 4	Vor Referendum Measure No. 5	Against Referendum Measure No. 5	For Referendum Measure No. 6	Against Referendum Measure No. 6	For Referendum Measure No. 7	Against Referendum Measure No. 7
1	Adams	320	1,524	268	7 505	504	1 015	019	1.00
2	Asotin	291	823	224	1,535 861	534 386		243 226	1,49
3	Benton	441	1,712	334	1,765	517		320	1,76
4	Chelan	1,096	2,960	868	3,068	1,537	2,485	858	3,04
6	Clallam	1,975	3,101	541	1,370	720		445	1,39
7	Columbia	275	1,255	216	3,389	1,835		1,275	3,37
8	Cowlitz	526	1,821	429	1,270	335 639		192	1,2
9	Douglas	550	1,443	360	1,559	609		348 352	1,8
0	Ferry	346	714	269	775			553	72
2	Franklin	330 191	975 729	267	962			226	95
3	Grant	494	1,536	399	751			113	78
4	Grays Harbor	1,819	6,691	1,485	1,590			382	1,52
5	Island	257	983	169	6,876			1,281	7,45
6	Jefferson	534	726	398	1,030	378 571		141 409	1,09
7	King	16,874	45,528	13,773	46,950			13,813	47,19
9	Kitsap	1,204 855	3,654 2,491	946	3,785	1,388		838	3,8
0	Klickitat	563	1,248	369	2,604	983		580	2,56
1	Lewis	1,774	4,984	1,354	1,369	541	1,260	342	1,34
2	Lincoln	591	3,045	477	5,200			1,175	5,21
3	Mason	359	727	282	3,084	900 401	2,734	469	3,01
4	Okanogan	784 850	2,519	598	2.681	802	720 2,483	261 553	2,56
25	Pacific	356	1,087	565	2,294	946	2,154	550	2,3
27	Pierce	7,972	19,778	5,751	1,157	368	1,091	236	1,15
28	San Juan	283	649	204	20,947	10,674	19,068	5,215	21,82
29	Skagit	1,376	6,436	977	704	287	653	195	71
30	Skamania	187	363	127	6,543	1,943	6,157	827	6,76
32	Snohomish Spokane	2,912 7,068	10,761 25,441	2,264	11,119	4,958	9,740	2,084	11,18
33	Stevens	932	3,277	733	26,158	11,353	22,345	5,709	26,00
34	Thurston	1,304	3,280	965	3,333	983	3,180	594	3,30
35	Wahkiakum	169	366	110	3,431	1,820	3,021	954	3,445
36	Walla Walla	1,277	5,114	1,064	5,230	158	363	87	381
37	Whateom	2,471	9,251	1,881	9,458	1,731 2,679	4,891	993	5,14
38	WhitmanYakima	1,487 1,883	5,498 7,744	1,155	5,536 7,971	2,121	9,056	1,653	9,500
	Totals	63,646	193,686		-	2,584	7,247	1,850	7,923

		PROPOS		TIATIV M MEAS		
COUNTIES	For Referendum Measure No. 8	Against Referendum Measure No. 8	For Referendum Measure No. 9	Against Referendum Measure No. 9	For Initiative Measure No. 18	Against Initiative Measure No. 18
Adams Asotin Benton Chelan Clailam Clailam Clarke Columbia Cowlitz Douglas Perry Franklin Garfield Grant Grays Harbor Island Jefferson King Kitsap Kittitas Kilickitat Lewis Lincoln Mason Okanogan Pacific Pend Oreille Pierce San Juan Skagit Skammania Snohomish Spokane Stevens Thurston Wahkakum Walla Walla Whateom	216 203 278 788 458 1,296 1,796 333 335 234 232 1,308 1,408 562 268 498 498 628 498 628 498 628 1,993 5,106 1,993 5,107 1,993 5,117 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 1,118 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11,066 482 230 249 249 5,635 5,650 606 606 606 606 606 606 606 606 606	1,858 1,302 2,448 4,658 2,049 2,388 1,727 2,550 2,261 1,074 2,055 8,522 1,288 1,288 1,288 1,288 1,288 1,477 2,466 3,588 1,477 2,466 3,471 4,400 31,477 4,400 4,623 1,108 8,277 6,655 1,108

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	COUNTIES	Warren H. Lewis	Luther P. Weedin	F. E. Beard	Geo. E. Flater	3. Henry Smith Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rulth Rul
1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21 22 22 24 25 26 27 28 30 31 32 33 34 35 36 37 38 39	Adams Asotin Benton Chelan Clailam Clailam Clailam Columbia Cowlitz Douglas Ferry Franklin Garfield Grant Grays Harbor Island Jefferson King Kittitas Kilekitat Lewis Lincoin Mason Okanogan Pacific Pend Orelile Perre San Juan Skagit Skamania Snohomish Spokane Stevens Thurston Walla Walla Walla Walla Walla Walla Walla Whatcom Whitman Yakima	1,237 1,004 1,460 3,011 1,475 4,419 1,125 5,183 1,125 5,24 1,005 5,04 1,094 88,969 2,638 2,638 2,638 2,638 2,638 1,570 5,186 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1,896 1	1,290 901 1,408 2,997 1,458 4,409 1,125 581 672 882 1,204 4,905 1,018 2,625 2,289 2,289 2,289 1,551 5,163 2,625 2,284 758 1,877 2,656 4,118 4,404 1,678 589 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,118 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18 4,18	1,233, 991; 1,401 3,011; 1,449; 4,414; 1,147; 2,107; 1,123, 580; 672; 842; 1,266; 2,627; 2,284; 1,562; 5,159; 2,666; 3,21; 6,67; 3,21; 6,67; 3,21; 4,66; 4,75; 4,97; 7,7;	2,28 1,55 5,14 2,85 2,85 1,60 4,11 19,48 2,67 8,60 4,18 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,48 19,4	1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.
89	Yakima Totals	7,188		7,1	7,1	7,147 1,100 1,111

					DENTIA				
	Asotin Benton Chelan Chelan Claike Columbia Cowlitz Douglas Ferry Franklin Garfield Grant Grays Harbor Island Jefferson King Kitsap Kitsap Kittias Kilekitat Lewis Lincoln Mason Okanogan Pacific Pend Oreille Pierce San Juan Skagit Skamania Snohomish Spokane Stevens Thurston	D. M. Drumheller	George F, Christensen	C. C. Brown	Francis Donahoe	G. W. Hoxie	Joseph A. Stoan	*A. T. Stream	Edwin M. Connor
1	Adams	1,294	1,296	1,291	1,287	1,285	1,281		1,27
2		1,136	1,127	1,130	1,129	1.198	1,118		1,10
3		1,351	1,291	1,288	1,287	1,289	1,288	1,289	******
4		2,747	2,758	2,761	2,749	2,764	2,742		2,75
6		1,339 3,728	1,331 8,720	1,329	1,331	1,326			1,31
7	Columbia	1,164	1,161	1,153	3,713	3,718	1 150		3,72
8		1,282	1,280	1,282	1,279	1,280	1.279	*******	1,28
9		1,916	1,916	1,916	1,912	1,911			1,91
0	Ferry	913	906	908	906	909	906	908	******
1	Franklin	1,110	1,104	1,104	1,105	1,102		*******	1,10
2		728	722	723	722	721			72
8		1,563	1,558	1,553	1,556	1,554		******	1,55
5		4,992 855	4,977 858	858	4,980 849	4,974 854		*******	4,97
6		861	866	864	864	862	865		86
7	King	52,362	52,360	52,435	52,289	52,183			51,89
8	Kitsap	3,479	8,510	8,507	3,502	3,498	3,500	8,475	
9	Kittitas	2,609	2,595	2,599	2,589	2,591	2,590	1	2,59
0		1,478	1,473	1,473	1,472	1,468	1,470	minor	1,45
2		4,318	4,325	4,320	4,341	4,318	4,320	******	4,32
3		2,827	2,815 781	2,815 782	2,816	2,810 779	2,817 781	780	2,81
i	Okanogan	2,924	2,890	2,889	2,880	2,870	2,878	229	
5	Pacific	1,537	1,539	1,542	1,539	1,533	1,536		1,5
8	Pend Orefile	1,080	1,083	1,082	1,081	1,080	1,082		1,08
7	Pierce	18,940	18,951	18,950	18,947	18,925	18,940	18,942	
8		669	670	665	666	664	602		- 60
9		4,936	4,935	4,929	4,926	4,919		*******	4,91
0	Special	8,390	8,406	8,406	452	452	449		40
12	Spokane	21,339	21,818	21,308	8,396 21,302	8,392	01 005		21,28
3	Stevens	3,184	3.185	3,182	3,179	3,180	3.176	*******	3,17
14	Thurston	2,658	2,670	2,674	2,669	2,662			
5	Wahkiakum	340	340	339	340	338	341	341	
2)	Walla Walla	4,456	4,423	4,414	4,416	4,412	4,411	4,417	
7	Whatcom	5,629	5,637	5,637	5,647	5,637	5,632		
88	Yakima	5,888 6,136	5,869	5,807	5,864	5,861	5,861		
		C1 100%	6,123	6,115	6,112	6,104	6,115	6,108	

^{*} Deceased. Edwin M. Connor substituted before election.

			PRI	Probit	MAL ELI			
	COUNTIES	Salome R. Lippy	Walter F. McDowell	John Anderson	L. Stanton	E. B. Orary	R. M. Shoemake	O. O. Gridley
12845678901234567890123456789	Adams Asotin Benton Chelan Clailam Claire Columbia Cowlitz Douglas Ferry Franklin Garfield Grant Graps Harbor Island Jefferson King Kitsap Kittitas Kilekitat Lewis Lincoln Mason Okanogan Pacific Pend Orelle Perce San Juan Skagit Skamania Snohomish Spokane Stevens Thurston Wahkiakum Walla Walla Whatcom Whitman Yakima	21. 800 538 151. 199 1996 557 28 5 28 11 18 88 96 6 22 922 994 982 23 259 6 16 887 7 104 221 7 7 120 465 1996 575	21 80 58 151 19 199 57 28 5 57 23 23 23 96 15 22 90 4 24 28 57 90 16 30 16 30 16 30 16 30 16 30 40 40 40 40 40 40 40 40 40 40 40 40 40	21 79 51 151 19 201 25 59 30 5 24 12 28 92 25 241 16 22 901 98 92 25 241 16 33 92 16 33 92 16 16 35 16 16 35 16 16 36 16 16 16 16 16 16 16 16 16 16 16 16 16	211 799 51 150 199 255 26 27 27 133 99 99 22 233 64 1,056 68 889 99 104 1,056 889 104 119 461 119	25 25 28 28 25 25 25 25 25 25 25 25 25 25 25 25 25	5 28 38 38 55 55 55 56 56 57 57 57 57 57 57 57 57 57 57 57 57 57	22 28 29 11 12 28 29 29 22 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29
	Totals	6,968	6,840	6,888	6.814	6,812	6.819	6,790

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	COUNTIES	8	House	_		<b>5</b>	Bonner Bartlett	-
		Nielsen		Сапр	Bertha Zietz	Allen Brooks	, M	Kate Sutton
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		Marie	Laura	Helen (	#	g	ă	3
		ğ	3	Hel	<b>8</b>	1	28	<b>S</b>
1	Adams	112	112	118	118	112	112	111
2	Asotin	117	117	117	117	117	117	116
3	Benton	842	813 401	814	818	313 399	812	815
4	Ohelan Olallam	405 418	401 414	400 414	300 414	415	999 . . 418	398 415
6	Olarke	677	675	675	676	675	675	675
7	Columbia	108 878	108 877	108 878	108 877	108 879	106 877	108 379
9	Douglas	148	148	148	148	148	148	148
10	Perry	221	221	221	221	221	221	220
11 12	Franklin	109 82	109 81	109 82	109 82	109 82	108 80	108 81
13	Grant	221	221	222	222	222	222	223
14 15	Grays Harbor	1,209 170	1,204 189	1,204 169	1,201 169	1,202	1,208 169	1,202
16	Jefferson	134	181	130	182	181	181	132
17 18	King Kitsap	8,198 751	8,072 720	<b>8,05</b> 7 718	8,062 717	8,067 716	8,048 717	8,042 717
19	Kitsap	262	257	259	258	257	259	258
20	Klickitat	186	187	189	189	188	187	187
21 22	Lewis	845 221	844 222	844 221	842 221	843 221	844 221	843 221
23	Mason	162	162	162	162	162	162	162
24 25	Okanogan	474 257	473 254	478 254	472 254	472 258	474 255	478 258
26	Pend Oreille	iii	111	111	112	112	112	112
27	Plerce	1,894 122	1,885 117	1,898 117	1,861	1,885	1,898	1,883
28 29	San Juan	951	939	941	940	942	988	939
30	Skamania	84	84	84	84	84	84	33
31 32	Snohomish	2,548 1,821	2,526 1.315	2,524 1.816	2,522 1.818	2,529 1.815	2,521 1.815	2,580 1,819
33	Stevens	678	675	676	675	676	675	676
34 85	Thurston	624	618	618 108	621 108	618 108	617 103	619 108
35 36	Wahkiakum Walia Walia	108 218	108 217	217	217	217	217	208
37	Whatcom	2,075	2,064	2,068	2,064	2,065	2,067	2,069
38 39	Whitman	239 785	238 731	238 783	238 731	238 735	239 781	239 782
3-								·
	Totals	22,800	22,515	22,510	22,486	22,518	22,482	22,490
	· ·	•	•		•	•	•	

_			Pi	ESIDE1 Sociali	TIAL E		88	
	COUNTIES	Gotfried Gustatson	Jerry E. Sullivan	John O. Schafer	Leslie H. Sawyer	Arne Hage	Fred Kurtsman	Andrew P. Anderson
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 22 22 24 25 27 28 33 34 35 36 38 38 38 38 38 38 38 38 38 38 38 38 38	Adams Asotin Benton Chelan Clallam Clallam Clallam Cowlitz Douglas Ferry Franklin Garfield Grant Grays Harbor Island Jefferson King Kitsap Kittitas Kilckitat Lewis Lincoln Mason Okanogan Pacific Pend Oreille Pieroe San Juan Skagit Skamania Snohomish Spokane Stevens Thurston Wahkiakum Walla Walla Whatcom Whitman	9 1 8 7 10 10 2 4 2 2 3 1 3 1 5 5 7 7 2 12 7 7 2 13 5 5 7 6 4 9 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 1 5 8 9 9 9 2 4 4 2 2 3 3 3 1 1 7	8 1 1 5 7 9 10 2 4 4 2 3 3 1 1 3 1 6 1 2 5 4 4 100 5 5 8 5 4 4 100 5 5 12 2 2 4 1 5 5	81 57 10 92 44 22 83 12 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 11 82 10 8 10 8	81 67 79 10 2 4 4 1 3 8 4 1 1 6 2 2 4 9 1 1 6 2 5 1 1 2 5 1 1 2 1 1 2 1 1 2 1 1 5 1 5	8 1 1 5 7 7 10 8 2 2 4 4 1 2 8 4 4 1 1 2 4 8 1 5 7 5 4 9 9 1 2 5 1 1 2 4 6 5 5 1 2 1 2 4 6 5 5 1 2 1 2 2 4 6 5 5 1 2 1 2 2 4 6 5 5 1 2 1 2 2 4 6 5 5 1 2 1 2 2 4 6 5 5 1 2 1 2 2 4 6 5 5 1 2 1 2 2 4 6 5 5 1 2 1 2 2 4 6 5 5 1 2 1 2 2 4 6 5 5 1 2 1 2 2 4 6 5 1 2 1 2 2 4 6 5 1 2 1 2 2 4 6 5 1 2 1 2 2 4 6 5 1 2 1 2 2 4 6 5 1 2 1 2 2 4 6 5 1 2 1 2 2 4 6 5 1 2 1 2 2 4 6 5 1 2 1 2 2 4 6 5 1 2 1 2 2 4 6 5 1 2 1 2 2 4 6 5 1 2 1 2 2 4 6 5 1 2 1 2 2 4 6 5 1 2 1 2 2 4 6 5 1 2 1 2 2 4 6 5 1 2 1 2 2 4 6 5 1 2 1 2 2 4 6 5 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$ 2 5 5 7 7 9 100 12 5 5 2 4 4 4 1 13 6 6 2 100 15 5 5 5 100 12 12 12 12 12 12 12 12 12 12 12 12 12
80	Yakima	780	711	701	697	699	690	701

		FO	R UNIT	ED ST	ATES SI	ENATO	R	GO	VERNO	R
		Rep.	Dem.	Prog.	Proh.	Soc.	Soc. Lab.	Rep.	Dem.	Prog.
d	COUNTIES	Mlles Poindexter George Turner		Walter J. Thompson	Joseph A. Campbell	Joseph A. Campbell Bruce Rogers		Henry McBride	Frnest Lister	James E. Bradlord
1	Adams	1,831	1,142	1	10	101		970	1,581	2
90.00	Benton	1,054	926 982	5	51 49	114 306		1,332	1,185	3 9
4	Chelan	3,774	1,819	18	117	371		2,626	3,246	22
5	Clallam	1,903	807	4	17	393		1,483	1,390	
6	Clarke	4,979	2,617	15	156	669		5,098	2,904	20
7	Columbia	1,270	944	2	24	100	20000	1,081	1,241	1
8	Cowlitz	2,281 1,394	989 1,600	6	53 30	363 128	1	2,035	1,391	1
0	Ferry	697	739	6	6	210		1,038	2,014	
1	Franklin	853	844	2	18	101		586	1,181	
2	Garfield	827	669	1	7	32		768	775	1
2	Grant	1,529	1,160	8	32	224		1,338	1,408	36
4	Grays Harbor	5,613	4,106	16 10	84	1,249	*****	4,957	5,004	45
6	Jefferson	1,287	599 544	2	28 32	158 134		1,160	1,016	
7	King	49,849	35,480	911	570	2,733		43,350	45,438	
8	Kltsap	4,476	1,521	9	50	674		3,138	2,909	3
9	Kittitas	2,891	1,932	8	55	249		2,409	2,557	1
0	Klickitat	1,822	1,002	8	31	175	2	1,399	1,654	4
1 2	Lineoln	5,488 2,732	3,707 2,314	24	175 36	840 205	*****	4,752 2,143	4,838	1
3	Mason	887	580	1	13	145		758	795	
4	Okanogan	2,642	2,065	9	25	456		1,817	3,075	1
á	Pacific	2,788	1,177	8	28	249		2,516	1,610	1
6	Pend Orellie	1,088	888	2	12	102		952	1,066	10
7	San Juan	19,840 755	15,435 456	85	624	1,775	*****	16,524 775	19,590	12
9	Skagit	5,445	3,264	19	204	1,021	******	4,007	5,192	
0	Skamania	515	300	4	8	32		503	389	
II.	Snohomish	10,251	6,016	36	371	2,696	1.000-5	8,080	9,040	6
9	Spokane	23,521	17,346	55	377	1,137	*****	19,937	21,236	7
3	Stevens	3,192	2,532	7 29	177	677 631	******	2,404 3,248	3,490 2,493	
5	Wahkiakum	521	239	2	5	98	LATER	430	382	
В	Walla Walla	5,454	3,328	8	50	187		4,040	4,991	
7.	Whatcom	9,014	3,785	46	311	1,889		7,202	6,158	14
8	Whitman	5,584	4,973	10	122	223	******	4,749	6,008	
9	Yakima	8,560	4,485	46	375	747	*****	6,061	7,625	6
	Totals	202,287	135,339	1,442	4,411	21,709	1	167,809	181,645	2,89

			OVERNO Conclude		LIEU	TENAN'	r gove	RNOR
		Proh.	Soc.	Soc. Lab.	Rep.	Dem.	Proh.	Soc.
	COUNTIES	A. B. L. Gellerman	L. E. Katterfeld	James E. Elordan	Louis F. Hart	Thomas Lally	Nettle Hollenbeck	Katherine H. Hodgins
1234567890012345678900123456789001284567	Adams Asotin Benton Chelan Chelan Clallam Clarke Columbia Cowlitz Douglas Ferry Franklin Garfield Grant Grays Harbor Island Jefferson King Kitap Kittias Klickitat Lewis Lincoln Mason Okanogan Pacific Pend Orellie Pierce San Juan Skagit Skamania Snohomish Spokane Stevens Thurston Walla Walla Whaltcom	6 86 27 27 94 40 23 3 10 40 40 40 40 40 40 40 40 40 40 40 40 40	96 109 276 848 889 683 693 693 1197 81 1197 125 127 127 129 108 792 261 149 150 168 1790 199 1179 1790 199 1179 1179 1179 1	1 2 5 6 10 3 3 2 3 3 1 1 1 1 1 2 2 2 7 7 4 7 4 2 2 2 7 7 7 4 2 2 2 2 2	1,226 1,013 1,555 8,238 8,238 8,238 1,577 4,896 1,199 22,146 1,199 627 715 812 1,206 40,701 1,670 5,302 2,579 2,189 2,744 19,010 735 4,499 19,010 735 4,499 2,701 8,844 20,544 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554 4,554	1,177 889 1,088 2,218 2,218 971 2,589 1,067 1,741 791 962 6,82 1,250 3,994 723 3,709 30,352 2,378 2,064 1,179 15,744 1,179 6,82 2,878 2,878 2,964 1,179 6,882 15,762 10,682 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,872 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,873 2,	9 49 42 125 125 129 129 129 129 129 129 129 129 129 129	100 1144 277 366 569 105 105 128 284 128 284 118 119 129 129 118 118 118 118 118 118 118 118 118 11
8	Whitman Yakima	105 252	208 707	8 6	5,266 7,408	4,982 5,436	196 422	231 737 22,506

		1	SEORET	'ABY OI	FSTAT	E	ST.	ATE TR	EASUR	ER
		Rep.	Dem.	Prog.	Proh.	Soc.	Rep.	Dem.	Proh.	Soc.
	COUNTLES	I. M. Howell	J. M. Tadlock	Frank A. Rust	W. J. Warren	James Grant	W. W, Sherman	George J. Galvin	Mary M. Wade	Mary Stevenson
1 2	Adams	1,406	998	4	12	100	1,828	1,062	15	96
3	Benton	1,099	980 974	8 9	51 48	116 299	1,060	831 945	45 49	116 810
4	Chelan	8,858	2,089	18	160	897	8,338	2,009	171	411
5	Clallam	1,687 5,009	865 2,441	12 14	· 18	407 698	1,622 4,916	961 2,471	56 201	69
7	Columbia	1,260	989	2	26	101	1,281	998	26	10
8	Cowlitz Douglas	2,211	983	9	56	379	2,221	986	71	876
9	Ferry	1, <b>322</b> 671	1,611 787	10	80 5	188 209	1,281	1,671	86	130
11	Franklin	810	826	7	21	101	823	816	21	100
12 13	Garfield Grant	925 1,417	558 1,195	1 24	9 42	82 287	980	1,224	49	24
14	Grays Harbor.	5,719	3,789	51	97	1,806	1,865 5,715	8,772	149	1,31
15	Island	894	640	6	25	172	880	608	66	170
16 17	Jefferson King	1,258 42,856	506 <b>36,748</b>	9 1,149	18 585	135 2,962	1,286 42,948	507 84,411	82 843	18 3,12
18	Kitsap	3,188	2,268	89	88	766	8,272	1,999	187	80
19 20	Kittitas	2,760	1,871	9	64	271	2,788	1,891	60	26
21	Klickitat	1,758 5,608	969 8,456	12 25	28 180	174 848	1,721	978 4.227	32 190	171 82
22	Lincoln	2,712	2,270	8	40	204	2,516	2,355	52	201
23 24	Mason Okanogan	854 2,825	579 2,254	15	14 32	155 456	2,229	566 2,249	20	16
25	Pacific	2,800	1,081	7	81	258	2,888	1,008	58	258
26	Pend Orelle	1,019	905	5	11	108	1,024	907	17	100
27 28	Pierce San Juan	19,980 755	14,602 894	87 5	688 14	1,860 117	19,946	14,529 878	669 23	1,878
29	Skagit	4,688	3,685	55	251	990	4,788	3,848	872	1,05
30 31	Skamania Snohomish	527 9,116	298 6,608	57	7 405	32 2,818	9,186	283 6,187	589	2,850
32 32	Spokane	22,682	17,082	45	450	1,219	21,899	17,515	507	1,246
33	Stevens	2,867	2,714	17	82	709	2,885	2,697	90	717
84 85	Thurston Wahkiakum	8,452 552	1,982 196	69 2	180	676 104	8,604 542	1,805	211	674 108
86	Walla Walla	5,241	8,247	9	58	194	5,009	8,809	82	19
37	Whateom	7,983	4,208	110	420	1,975	8,041	8,872	666	1,99
38 10	Whitman	5,676 8,280	4,558 4,571	18 51	189 411	286 742	5,444 8,491	4,699	140 456	230 757
							1 -,	1 -,		,

			TATE A	UDITO	R		TTORNE ENERA	
		Rep.	Dem.	Proh.	Soc.	Rep.	Dem.	80c
	COUNTIES	O. W. Chausen	Otto A. Onse	N. A. Thompson	E. E. Owsley	W. V. Tanner	Henry Alberts McLean	M. J. Schwartz
123456789011284156678901228245678990132834566788	Adams Asotin Benton Chelan Chelan Cialke Columbia Cowiitz Douglas Ferry Franklin Garfield Grant Grays Harbor Island Jefferson King Kitasp Kittitas Kitekitat Lewis Lincoln Mason Okanogan Pacific Pence San Juan Skagit Skamania Shagit Skamania Shohomish Spokane Stieves Thurston Walla Walla Whatcom Whitman	8,291 2,575 1,706 5,387 2,538 838 2,223 2,768 1,009	1,184 888 1,068 2,062 919 2,400 1,963 1,698 872 6225 1,290 8,577 2,349 2,088 40,887 2,349 2,088 40,877 2,349 2,088 1,971 2,349 2,088 1,971 2,349 2,288 1,971 2,349 2,288 1,971 2,349 3,508 2,278 1,971 3,508 4,774 4,774 4,774	14 45 44 122 16 178 82 22 22 25 18 41 197 255 16 601 74 60 81 12 10 602 11 45 64 87 7 247 8 5 5 7 488 186 186	97 113 309 401 102 875 181 106 108 240 1,312 1,164 1,240 1,250 1,250 1,202 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,2	1,325 1,021 1,641 3,335 4,902 1,265 1,265 805 805 805 81,344 41,689 3,146 2,583 1,244 41,689 3,146 2,583 1,010 19,656 9,163 21,940 2,512 4,680 9,163 8,529 4,883 8,529 4,883 8,529	1,058 841 979 2,084 2,522 1,008 1,008 1,008 1,248 3,911 2,248 3,911 2,248 2,273 1,902 2,347 1,902 14,987 400 3,808 1,585 17,739 2,148 2,482 4,167 4,167	100 101 111 111 111 111 111 111 111 111
ε į	Yakima	8,192	4,509 142,265	425 5,080	788	8,831 183,977	139,085	23,

		0	RINTEN F PUBL TRUOT	IC	O	DMMISS PUBLIC		
		Rep.	Dem.	Boc.	Rep.	Dem.	Prog.	Soc.
	COUNTIES	Josephine Oorliss Preston	J. H. Morgan	Frances C. Sylvester	Olark V. Savidge	Robert E. McFarland	Joe Smith	Frank Cort
1 2 8 4 5 6 7 8 9 10 11 2 11 3 11 4 15 16 17 18 19 22 12 22 22 22 22 22 22 22 22 22 22 22	Adams Asotin Benton Cheian Ciallam Ciallam Columbia Coulitz Douglas Ferry Franklin Garfield Grant Grays Harbor Island Jefferson King Kitsap Kittitas Kilekitat Lewis Lincoln Mason Okanogan Pacifie Pend Orallie Pieree San Jun Skagit Skamania Snokane Stevens Thurston Walla Walla	1,008 1,906 44,920 8,759 1,896 1,739 5,400 2,638 757 2,690 1,076 1,076 19,465 813 5,204 813 5,204	1,202 812 1,044 2,056 2,713 1,127 1,641 1,127 1,641 4,133 564 4,133 564 4,133 564 4,133 564 2,391 665 2,391 665 1,942 1,373 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 15,402 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,733 3,	95 111 312 408 418 704 97 377 138 208 102 242 1,336 162 162 162 162 162 162 1798 163 400 0 1,929 119 1,076 1,218 698 1,218 698 1,000	1,429 1,087 1,783 4,959 1,673 4,959 1,244 2,270 1,863 649 925 1,267 42,017 3,861 2,784 1,760 2,459 2,459 2,928 1,052 2,459 2,928 1,052 2,459 2,928 1,052 2,928 2,07 2,928 2,928 2,07 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 2,928 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78	Whateom Whitman Yakima Totals	8,268 5,645 8,450 192,236	4,247 4,772 4,761 186,458	2,058 226 746 23,669	8,404 5,507 8,516 187,269	8,674 4,608 4,813 181,975	124 43 47 2,111	2,02 23 75 23,20

				SURAN SIONES		IN		TATIV 3RE88 istrict
		Rep.	Dem.	Prog.	Soc.	Rep.	Den	80
	COUNTIES	H. O. Fishback	J. H. Hemer	L. L. Snow	F. J. McKay	John F. Miller	George F. Cotterill	E. B. Tryon
1 2 3 4 5 6 7 8 9 10 11 2 3 14 15 6 17 8 19 10 11 2 2 2 2 3 4 5 6 7 8 9 10 11 2 2 2 2 3 4 5 6 7 8 9 10 11 2 2 2 2 3 4 5 6 7 8 9 10 11 2 2 2 2 3 4 5 6 7 8 9 10 11 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Adams Asotin Benton Chelan Clallam Clallam Clarke Columbia Cowitz Douglas Ferry Franklin Garfield Grant Grays Harbor Island Jefferson King Kitzias Kitckitat Lewis Lincoln Mason Okanogan Pacific Pend Oreille Pierce San Juan Skagit Skamania Snohomish Spokane Stevens Thurston Walla Walla	1,359 1,009 1,092 1,693 8,386 1,686 4,970 1,283 2,161 1,283 1,127 1,127 1,128 4,915 42,996 8,48 1,368 9,28 1,2707 1,684 5,766 9,28 1,707 1,684 5,689 2,707 1,684 6,915 6,829 2,900 8,46 4,915 6,829 9,876 22,485 2,797 22,485 22,485 23,978	1,004 826 826 1,901 800 2,365 1,004 1,027 1,655 779 3,562 579 38,010 1,832 946 8,426 2,256 578 976 8,426 2,256 579 1,832 2,256 579 976 8,426 2,256 579 1,680 1,581 1,582 1,582 2,146 976 8,158 1,582 1,582 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1,583 1	8 55 155 82 8 82 8 8 82 17 7 11 6 2 2 25 14 8 8 8 8 12 17 6 4 9 9 22 24 0 11 11 128 9 9 9 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	95 114 310 404 409 606 99 378 187 202 104 81 1,323 160 142 8,200 818 249 180 167 168 1718 688 178 688 196 178	35,714 3,065		
37 38 39	Whateom	8,108 5,551 8,521	8,667 4,588 4,198	207 16 75 2,856	2,045 282 750 28,854	88,769	85,718	2.684

		IN	ESENTA OONGR ond Dist	ESS	REI	E IN		
		Rep.	Dem.	Soc.	Rep.	Dem.	Prog.	8oc.
-	COUNTIES	Lindley H. Hadley	Mrs. Frances O. Axtell	B. J. Olinger	Albert Johnson	George P. Fishburne	Geo. CotterIII	W. P. Perguson
1 2	Adams							
3	Benton							
5	Clallam	1,585	1,062	408				
6 7	Clarke							667
8	Oowlitz				2,848	941		864
10	Douglas							
11 12	Franklin							
18	GarfieldGrant						1	
14	Grays Harbor	708	812	158	6,099	3,719		1,226
16	Island Jefferson	1,152	650	161				
17 18	King Kitsap	6,979	7,686	81.5				
19	Kittitas							
20 21	KlickitatLewis					8,467		727
22 23	Lincoln Mason					1		157
24	Okanogan				904			157
25 26	Pacific				3,054	1,017		250
97	Pierce	l	'		19,356	15,494		1,562
28 29 30	San Juan	4 995	565 4,527	106				
30	Skamania				608	260		82
31 32	Spokane		7,171	8,075			:	
38 34	Stevens				3,604	1,848	2	588
35 36	Wahkiakum	1			630	164	<u>.</u> .	94
87	Walla Walla	7.794	5,662	1,815				
38	Whitman						[:::::::	
39	Yakima	•••••						
	Totals	81,655	28,075	7,587	47,415	29,949	. 2	5,662

		IN	ESENT. CONGR irth Dist	E88	IN	ESENT. CONGR th Dist	ESS
		Rep.	Dem.	Soc.	Rep.	Dem.	Soc.
	COUNTIES	William L. LaFollette	Chas. W. Masterson	Walter Price	Tom Corkery	c. o. du	John M. Powers
1 2	Adams	1,897 1.142	1,075 819	96 118			
8	Benton	1,812	917	818	2,850	2,988	339
5	Clarke						
7 8	Columbia Cowlitz	1,821	944	104			
9	Douglas Ferry				1,106 473	1,956 1,095	118 169
1 2	Pranklin Garfield Grant	928 927	786 567	108 33			
8	Grant	1,609	1,058	284			
4 5	Island						
6	Jefferson King						
8	Viteen						
9	Kittitas	2,961 1,899	1,754 906	257 178			
1	Lewis		300	110			
2	Lincoln Mason				2,297	2,862	192
4	Okanogan				1.769	8,196	390
5	Pacific				872	1.180	
7	Pend Oreille		l	1	l <b></b>	1,180	80
8	San Juan					• • • • • • • • • • • • • • • • • • • •	
9	Skagit Skamanja						
1	Snohomish					- <u></u> -	
2	SpokaneStevens	• • • • • • • •			20,427	20,736 3,486	1,043
4	Thurston						
5	Wahkiakum Walla Walla	K 010	8,811	185	• • • • • • • • • • • • • • • • • • • •		
7	Whatcom						::::::
8	Whitman Yakima	6,064	4,899	227			ļ. <b></b>
۲	1 WEITING	8,901	4,208	794			
	Totals	88,980	21,189	2,667	32,298	87,479	2,902

		J	OINT 8	ENATO	RIAL DI	STRICT	.18
		First 1	District	Tenth:	District		enth trict
		Rep.	Dem.	Rep.	Dem.	Rep.	Dem.
	COUNTIES	W.A. Bolinger	J. W. Faulkner	Eigin V. Kuykendall	C. J. Thronson	O. T. Cornwell	E. G. Cox
1	Adams					1,290	1,108
2 8 4 5 6 7 8 9 10 11 12 18 14 15	Asotin Benton Chelan Clailam Clarke Columbia Cowlitz Douglas Perry Franklin Garfield Grant Grays Harbor Laland	1,145 588	1,885 804	1,144	1,182	780	816
16 17 18 19 20 21 22 23 24 25	Jefferson King Kitsap Kittatap Kittitas Kilekitat Lowis Lincoln Mason Okanogan Pacifie Pend Orelle						
26 27 28 29 30 31 32 33 34	Pierce San Juan Skagit Skamania Skaohomish Spokane Stevens Thurston						
34 35 36 37 38 39	Wahkiakum Walla Walla Whatcom Whitman Yakima Totals		6,062	8,407	2,497	4,122	•••••

=			JOINT SENATORIAL DISTRIC								
			teenth trict		Fifteent District		y-Third strict				
		Rep.	Dem.	Rep.	Dem.	Soc.	Rep.	Dem.			
-	COUNTIES	J. B. Adams	John H. Ferryman	D. V. Morthland	H. O. Davis	J. W. Martin	Peter Iverson	Marcus M. Bowman			
1 2 8 4 5 6 7 8 9 100 111 12 18 14 15 16 6 17 18 19 20 1 22 2 24 25 6 27 28 9 30 31 22 33 34 5 36 37 38	Adams Asotin Benton Chelan Clallam Clarke Columbia Cowlitz Douglas Ferry Franklin Garfield Grant Grays Harbor Island Jefferson King Kitsap Kittitas Kilckitat Lewis Idneoin Mason Okanogan Pacific Pend Oreille Pierce San Juan Skagit Skamania Snohomish Spokane Thurston Walla Walla Whatcom Whitan	2,614	2,081	1,577			997 8,688	2,158			
39	Yakima	5,184	5,166	8,250 9,827	5,000 6,045	742	5,589	3,265			

		001	GES OI	SUFILI	EME CO	UNI	
		Six	-Year Te	erm			-Year
COUNTIES	Emmett N. Parker	Mark A. Fullerton	George E. Morris	Peter Husby	Edgar G. Mills	J. Stanley Webster	Elihu Barker
Adams Asotin Benton Chelan Clallam Clallam Clarke Columbia Cowlitz Douglas Ferry Franklin Garfield Grant Grays Harbor Island Jefferson King Kitsap Kittitas Klickitat Lewis Lincoln Mason Okanogan Pacific Pend Oreilie Pierce San Juan	1,658 632 1,715 5,311 1,179 3,283 853 1,316 1,288 647 969 684 1,196 5,221 682 740 38,000 2,855 2,341 1,179 1,304 2,672 2,855 1,978 2,385 1,028 1,028 1,028 1,028 1,028	1,633 624 1,705 3,261 1,177 3,275 847 1,311 1,272 637 988 670 1,188 5,208 682 2,316 1,155 2,256 1,155 2,256 1,159 2,299 2,316 1,150 1,160 2,299 2,316 1,150 1,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160 2,160	1,618 625 1,676 3,235 1,171 3,264 842 1,283 633 1,157 5,115 665 767 2,731 2,337 1,141 1,241 2,570 1,907 2,257 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,265 1,907 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,007 2,00	3 2	34 4 4 117 2 8 16 19 7 3 13 16 6	1,617 600 1,623 3,125 1,120 8,212 804 1,225 650 930 650 1,144 4,837 646 6718 85,687 2,732 2,180 1,043 3,976 2,602 733 2,021 2,189 1,079 1,079 19,696	14
Skagit Skamania Snohomish Spokane Stevens Thurston Walla Walla Whateom Whitman Yakima	4,148 352 8,104 28,266 3,296 2,945 428 4,968	4,157 347 8,068 28,116 3,269 2,940 421 4,920 7,999 5,540 7,659	4,033 344 7,888 27,870 3,188 2,980 424 4,587 7,758 5,415 7,369	3 23	1 170 116 58 266	3,990 340 7,804 29,880 3,314 2,696 399 4,167 7,126 5,317 6,967	2

COUNTIES			JU	DGES (	OF SUI	PERIOR	coui	₹T.—J0	INT D	STR	ICT8
Adams											
2 Asotin	-	COUNTIES	John Truax	Edward A. Davis		₩.	John M. Ralston	John R. Mitchell	<b>5</b> .	¥. Bi	Edw. H. Wright
Skamania   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snohomish   Snoho	2 8 4 5 6 7 8 9 10 11 12 18 14 15 16 17 18 19 20 22 22 24 25 6 27	Asotin Benton Chelan Chelan Ciallam Clarke Columbia Cowlitz Douglas Ferry Franklin Garfield Grant Graps Harbor Island Jefferson King Kitsap Kittas Klickitat Lewis Lincoln Mason Okanogan Pacific Pend Oreille	569	804	778	2	1,378	850	874	2,25	1,164
39 Yakima	29 80 81 82 83 84 85 86 87	San Juan Skagit Skamania Snohomish Spokane Stevens Thurston Wahkiakum Walia Walia Whatcom Whitman						8,000	8,000	870	

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001	UNTIES	F. Leo Grinstend	Daniel Henry Carey	W. T. Darch	B. L. Hubbell	Sam B. Hill	W. E. Southard	E. K. Pendergast	C. H. Neal	Augustus Brawley
Adams			}		İ					
	n									
Clarke	<b> </b>				•••••					
Colum	hie				•••••					
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Kitsap										
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Lewis		1								
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Yakim	<b>a</b>									

THE VOTE FOR AND AGAINST CONSTITUTIONAL AMENDMENT, EACH INITIATIVE MEASURE, AND EACH REFERENDUM MEASURE, AND THE NAME OF EACH CANDIDATE, THE NUMBER OF VOTES RECEIVED BY EACH, AND THE OFFICE SOUGHT, ARE AS FOLLOWS:

AMENDMENT TO THE CONSTITUTION PROPOSED BY THE LEG	ISLATURE.
For Constitutional Amendment	88,963
Against Constitutional Amendment	180,179
Against Constitutional Amendment	200,
PROPOSED BY INITIATIVE PETITION.	
For Initiative Measure No. 24	<b>98</b> ,843
Against Initiative Measure No. 24	245,399
For Initiative Measure No. 18	48,354
Against Initiative Measure No. 18	263,390
PASSED BY THE LEGISLATURE AND ORDERED REFERRED BY	PETITION.
For Referendum Measure No. 3	62,117
	196,363
Against Referendum Measure No. 3	63,646
For Referendum Measure No. 4	193,686
<u> </u>	49,370
For Referendum Measure No. 5	200,499
Against Referendum Measure No. 5	85,672
Against Referendum Measure No. 6	183,042
For Referendum Measure No. 7	4 6,820
Against Referendum Measure No. 7	<b>~01</b> ,742
For Referendum Measure No. 8	45,264
Against Referendum Measure No. 8	<b>95</b> ,253
For Referendum Measure No. 9	67,205
Against Referendum Measure No. 9	181,833
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PRESIDENTIAL ELECTORS.	
Republican Party.	000
Warren H. Lewis	1 67.208
Luther P. Weedin	1 66,340
E. E. Beard	1 66.298
George E. Finley	1 66,375
J. Henry Smith	1 66,006
Richard M. Buttle	1 66.143
J. A. Perkins	1 65,971
Democratic Party.	_ 000
D. M. Drumheller	<b>1 83.</b> 338
George F. Christensen	_ 42.36.200
C. C. Brown	- 42.33.65
Francis Donahoe	- 42.34 Uso
G. W. Hoxie	
Joseph A. Sloan	
Edwin M. Connor	TV-
*A. T. Stream	1 34,481

^{*}Deceased—Edwin M. Connor substituted before election.

Prohibition Party.	
Salome R. Lippy	6,868
Walter F. McDowell	6,840
John Anderson	6,838
L. Stanton	6,814
E. B. Crary	6.112
R. M. Shoemake	6,819
C. C. Gridley	6,790
Socialist Party.	5,100
•	00 000
Marie Nielsen	22,800
Laura M. House	22,515
Helen Camp	22,510
Bertha Zietz	22,486
Allen Brooks	22,518
Bonner Bartlett	22,482
Kate Sutton	22,490
Socialist Labor Party.	
Gotfried Gustafson	730
Jerry E. Sullivan	711
John C. Shafer	701
Leslie H. Sawyer	697
Arne Hage	699
Fred Kurtzman	690
Andrew P. Anderson	701
AMMICW I. AMMCIOVA	101
UNITED STATES SENATOR.	
Miles Poindexter, Republican	202,287
George Turner, Democrat	135,339
Walter J. Thompson, Progressive	1,442
Joseph A. Campbell, Prohibition	4,411
Bruce Rogers, Socialist	21,709
REPRESENTATIVE IN CONGRESS.	
(First Congressional District.)	
John F. Miller, Republican	38,769
George F. Cotterill, Democrat	35,718
E. B. Tryon, Socialist	2,634
(Second Congressional District.)	
Lindley H. Hadley, Republican	31,655
Mrs. Frances C. Axtell, Democrat	28,075
R. J. Olinger, Socialist	7,537
	·
(Third Congressional District.)	
Albert Johnson, Republican	47,415
George P. Fishburne, Democrat	29,949
Geo. Cotterill, Progressive	2
W. F. Ferguson, Socialist	5,662
(Fourth Congressional District.)	
William L. LaFollette, Republican	33,980
Chas. W. Masterson, Democrat	
Walter Price, Socialist	21,189
Watter Frice, Sucialist	2,637

(Fifth Congressional District.)		
Tom Corkery, Republican		32,298 37,479 2,952
STATE SENATOR.		
(First District.)		
W. A. Bolinger, Republican:		
Grant Douglas Ferry Okanogan Total	1,607 1,145 588 2,590	5,930
J. W. Faulkner, Democrat:		
Grant Douglas Ferry Okanogan Total	1,115 1,835 804 2,310	<b>6</b> ,062
(Third District.)		
Harve H. Phipps, Republican: Spokane		7,090
J. F. Ginnis, Democrat: Spokane		5.482
(Fourth District.)		
R. A. Hutchinson, Republican: Spokane	• • • • • • • • • • • • • • • • • • • •	5.691
Geo. W. Armstrong, Democrat: Spokane		4.529
(Fifth District.)		
E. Ben Johnson, Republican: Spokane Clarence Martin, Democrat:		<b>3.</b> 650
Spokane	• • • • • • • •	.,,
(Ninth District.)		
W. C. McCay, Republican: Whitman	• • • • • • • • • • • • • • • • • • • •	$2 \cdot ^{496}$
W. W. Brand, Democrat: Whitman		2.837
(Tenth District.)		
Elgin V. Kuykendall, Republican: Asotin Columbia Garfield Total	1,170 1,144 1,093	_{3,40} 7
C. J. Thronson, Democrat:		
Asotiu Columbia Garfield	822 1,182 493	
Total		2,49 <b>T</b>

(Eleventh District.)	
O. T. Cornwell, Republican:	
Adams	
Franklin         780           Walla Walla         2.062	
Total	4,122
E. G. Cox, Democrat:	
Adams 1,103	
Franklin         816           Walla Walla         1,622	
Total	3,541
(Twelfth District.)	
D. H. Cox, Republican:	
Walla Walla	2,657
Ben F. Hill, Democrat: Walla Walla	2,348
	2,010
(Thirteenth District.)	
J. B. Adams, Republican:	
Chelan       2,614         Kittitas       2.520	
Total	5,134
John H. Ferryman, Democrat:	
Chelan 3,085	
Kittitas 2,081	
Total	5,166
(Fourteenth District.)	
(Fourteenta District.)	
Chas. E. Myers, Republican: Lincoln	2,907
Chas. E. Myers, Republican: Lincoln C. W. Bethel, Democrat:	•
Chas. E. Myers, Republican: Lincoln C. W. Bethel, Democrat: Lincoln	2,907 2,193
Chas. E. Myers, Republican: Lincoln C. W. Bethel, Democrat: Lincoln (Fifteenth District.)	•
Chas. E. Myers, Republican: Lincoln C. W. Bethel, Democrat: Lincoln  (Fifteenth District.) D. V. Morthland, Republican:	•
Chas. E. Myers, Republican: Lincoln  C. W. Bethel, Democrat: Lincoln  (Fifteenth District.)  D. V. Morthland, Republican: Benton  1,577	•
Chas. E. Myers, Republican: Lincoln C. W. Bethel, Democrat: Lincoln  (Fifteenth District.) D. V. Morthland, Republican:	•
Chas. E. Myers, Republican:	2,193
Chas. E. Myers, Republican:	2,193
Chas. E. Myers, Republican:	2,193 9,827
Chas. E. Myers, Republican:	2,193
Chas. E. Myers, Republican:	2,193 9,827
Chas. E. Myers, Republican:	2,193 9,827
Chas. E. Myers, Republican:	2,193 9,827
Chas. E. Myers, Republican:	2,193 9,827 6,045

(Eighteenth District.)		
F. G. Barnes, Republican: Cowlitz	2,186	
Geo. W. Taylor, Democrat: Cowlitz	1,092	
John F. Mackey, Socialist: Cowlitz	365	
(Twentieth District)		
E. E. Teachnor, Republican: Lewis	4,474	
A. E. Judd, Democrat: Lewis	4,931	
(Twenty-Second District.)		
P. H. Carlyon, Republican:		
Thurston	3,497	
Thurston	1,330	
(Twenty-Third District.)		
Peter Iverson, Republican:		
Mason 904		
Kitsap 3,688		
Island 997	5.589	
Total	5,500	
Marcus M. Bowman, Democrat:		
Mason 540		
Kitsap		
Total	3,265	
(Twenty-Fifth District.)		
W. M. Karshner, Republican:		
Pierce	4,947	
Hugh Herren, Democrat:		
Pierce	2,769	
(Twenty Seventh District )		
(Twenty-Seventh District.) Walter S. Davis, Republican:		
Plerce	2,725	
Wm. B. Coffee, Democrat:		
Pierce	1,990	
(Married W. 1914)		
(Twenty-Eighth District.)		
Wilburn Fairchild, Republican: Pierce	2,279	
(Thirty-Eighth District.)		
Joseph H. Smith, Republican: Snohomish	5,204	
Halvor Quam, Democrat:		
Snohomish	3,852	
John E. Goudie, Progressive	100	
Snohomish	180	
Walter Reece, Socialist:	4 679	
Snohomish	1,678	

(D T Dill.)	
(Forty-First District.) Ed. Brown, Republican:	
Whatcom	. 8,676
J. J. Falknor, Progressive:	
Whatcom	1,294
Milton C. Johnson; Socialist:	
Whatcom	1,186
GOVERNOR.	
Henry McBridge, Republican	167,809
Ernest Lister, Democrat	
James E. Bradford, Progressive	2,894
A. B. L. Gellerman, Prohibition	
L. E. Katterfeid, Socialist	
James E. Riordan, Socialist Labor	623
LIEUTENANT GOVERNOR.	
Louis F. Hart, Republican	177,269
Thomas Lally, Democrat	
Nettie Hallenbeck, Prohibition	5,235
Katherine H. Hodges, Socialist	32,505
SECRETARY OF STATE.	
I. M. Howell, Republican	187,851
J. M. Tadlock, Democrat	
Frank A. Rust, Progressive	
W. J. Warren, Prohibition	
James Grant, Socialist	
STATE TREASURER.	
W. W. Sherman, Republican	186,304
George J. Galvin, Democrat	•
Mary M. Wade, Prohibition	
Mary Stevenson, Socialist	23,159
STATE AUDITOR.	
C. W. Clausen, Republican	181 058
Otto A. Case, Democrat	
N. A. Thompson, Prohibition	
E. E. Owsley, Socialist	
ATTORNEY GENERAL.	
W. V. Tanner, Republican	192 077
Henry Alberts McLean, Democrat	
M. J. Schwartz, Socialist	
	20,201
SUPERINTENDENT OF PUBLIC INSTRUCTION.	
Josephine Corliss Preston, Republican	. 192,236
J. H. Morgan, Democrat	
Frances C. Sylvester, Socialist	23,669
COMMISSIONER OF PUBLIC LANDS.	
Clark V. Savidge, Republican	187,269
Robert E. McFarland, Democrat	
Joe Smith, Progressive	
Frank Cort, Socialist	23,207

STATE INSTIDANCE COMMISSIONED	
STATE INSURANCE COMMISSIONER.	189,645
H. O. Fishback, Republican	127,079
J. H. Hemer, Democrat	2,356
L. L. Snow, Progressive	23,354
F. J. McKay, Socialist	23,303
JUDGES OF SUPREME COURT.	
Six Year Term.	
Emmett N. Parker	178,670
Mark A. Fullerton	178,136
George E. Morris	175,086
Peter Husby	44
Edgar G. Mills	1,055
Four Year Term.	
J. Stanley Webster	170,653
Elihu Barker	54
JUDGES OF SUPERIOR COURT.	
John Truax:	
Adams	
Benton	
Franklin 559	4,028
Total	4,020
Edward A. Davis:	
Adams 405	
Benton 735	
Franklin	0.004
Total	2,03 <del>4</del>
Chester F. Miller:	
Asotin 789	
Columbia 944	
Garfield 775	
Total	2,506
G. W. Jewett:	
Asotin	
Columbia	
Garfield 2	
Total	. 2
John M. Ralston:	
Clallam 1,378	
Island 759	
Jefferson 905	
John R. Mitchell:	
Mason 850	
Thurston 3,069	
Total	. 3,919
D. F. Wright:	
Mason	
Thurston 3,000	
Total	. 3,874
H. W. B. Hewen:	9,014
Pacific 2.235	
Wahkiakum	
Total	. 2,603
TOTAL	. ±,000

Edw. H. Wright: Pacific Wahkiakum Total F. Leo Grinstead: Pend Oreille Stevens Total Daniel Henry Carey: Pend Oreille	584	1,448
Pacific  Wahkiakum  Total  F. Leo Grinstead: Pend Oreille Stevens  Total  Daniel Henry Carey: Pend Oreille	584	1,448
Wahkiakum Total  F. Leo Grinstead: Pend Oreille Stevens Total  Daniel Henry Carey: Pend Oreille	584	1,448
Total  C. Leo Grinstead: Pend Oreille Stevens Total  Daniel Henry Carey: Pend Oreille	584 2,402	1,448
C. Leo Grinstead: Pend Oreille Stevens Total  Paniel Henry Carey: Pend Oreille	584 2,402	1,110
Pend Oreille Stevens Total  aniel Henry Carey: Pend Oreille	2,402	
Stevens Total aniel Henry Carey: Pend Oreille	2,402	
Total		
aniel Henry Carey: Pend Oreille		
Pend Oreille		2,988
Pend Oreille		
	876	
Stevens		
Total	•	8,309
Total		0,000
7. T. Darch:		
Cowlitz	•	
Klickitat	1,457	
Skamania	411	
Total		3,300
T TTULE III		
. L. Hubbell:  Cowlitz	32	
Klickitat		
Skamania		
Total		36
Total		0(
am B. Hill:		
Douglas		
Grant		
Total	• • • • • • • • • • • • • • • • • • • •	2,989
7. E. Southard :		
Douglas	1	
Grant		
Total		12
1000 TO TO TO TO TO TO TO TO TO TO TO TO TO		
. K. Pendergast :		
Ferry		
Okanogan		
Total	• • • • • • • • • • • • • • • • • • • •	3,12
. H. Neal:		
Ferry	4	
Okanogan		
Total		39
		-
Augustus Brawley :		
Skagit		
San Juan		
Total	• • • • • • • • • • • • • • • • • • • •	5,358
STATE REPRESENTAT	TIVES.	
(First District_Stavens		
(First District—Stevens	= *	9 0 0
Z. E. Hayden, Republican		
Z. E. Hayden, Republican		2,74
Z. E. Hayden, Republican W. H. Anderson, Republican W. A. Haskins, Democrat		2,74: 2,77
Z. E. Hayden, Republican		2,80- 2,749 2,77- 2,810 713

(Second District—Spokane County.)	
Ira Honefenger, Republican	6,445
L. L. Westfall, Republican	6,412
Henry A. Sprague, Democrat	5,837
Wm. Matthews, Democrat	5,846
(Third District-Spokane County.	
Albert A. Kelly, Republican	4.957
D. P. Reid, Republican	5.592
John Moran, Democrat	4,550
Horatio R. Davis, Democrat	4,932
(Fourth District-Spokane County.)	-
Olaf L. Olsen, Republican	3,740
A. R. Stratton, Republican	3,645
J. W. Allender, Democrat	3,271
T. J. Cain, Democrat	3,201
(Fifth District—Spokane County.)	
Maurice Smith, Republican	2,290
L. Frank Ward, Republican	2,212
Chas. A. Aten, Democrat	1,970
Will Everett, Democrat	1,914
(Sixth District-Spokane County.)	
Fred A. Adams, Republican	3,369
John Anderson, Republican	3.375
G. D. Linn, Democrat	2,590
Carl S. Evans, Democrat	2,523
(Seventh District-Whitman County.)	
C. E. Hoover, Republcan	2,766
Ray Jones, Republican	2,764
L. C. Miller, Democrat	2,264
Wm. Goodyear, Democrat	2,601
(Eighth District-Whitman County.)	
George A. Weldon, Republican	2,628
Henry J. Clark, Republican	2,387
C. W. McCall, Democrat	2,655
J. C. Northrup, Democrat	2,592
(Ninth District—Asotin County.)	
Elmer E. Halsey, Republican	1,249
Geo. W. Roup, Democrat	1,022
(Tenth District—Garfield County.)	
•	887
J. T. Ledgerwood, Democrat	2
W. O. Long, Democrat	•
(Eleventh District—Columbia County.)	1,131
J. F. Rockhill, Republican	1,184
George Spalinger, Democrat	4,20-
(Twelfth District—Walla Walla County.)	. 701
Geo. Ginn, Republican	1,761 1,923
A. L. Ray, Democrat	1,020

(Thirteenth District—Walla Walla County.)	
John W. Summers, Republican	3,438
R. E. Butler, Republican	3,223
Rhoda Carmichael, Democrat	1,889
(Fourteenth District- Franklin County.	
L. L. Long, Republican	1,005
(Fifteenth District-Adams County.)	
M. W. Anthony, Republican	1,284
J. M. Moorman, Democrat	1,276
(Sixteenth District—Lincoln County.)	
W. G. Duncan, Republican	2,449
Mike Tanner, Republican	2,247
E. L. Farnsworth, Democrat	2,827
J. J. Cameron, Democrat	2,452
Wm. N. Childs, Socialist	205
Geo. E. Smith, Socialist	201
(Seventeenth District-Okanogan County.)	
- · · · ·	0 1 0 1
R. L. Picken, Republican	2,161
E. F. Banker, Democrat	2,237
J. L. Freeman, Socialist	820
(Eighteenth District—Douglas County.)	
A. B. Cunningham, Republican	1,291
J. A. Cross, Democrat	1,759
(Nineteenth District-Kittitas County.)	
J. C. Hubbell, Republican	3,319
D. O. Kearby, Democrat	3,405
(Twentieth District-Yakima County.)	·
Wm. P. Sawyer, Republican	9,108
Ina Phillips Williams, Republican	9,421
H. A. LaBerge, Democrat	4,697
Esta Oscar Stow, Prohibition	493
Edw. Maurer, Socialist	778
(Twenty-First District—Klickitat County.)	
John C. Crawford, Republican	1,607
F. E. Flynn, Democrat	1,451
(Twenty-Second District—Skamania County.)	
Elmer E. Shields, Republican	491
E. M. Cummings, Democrat	420
(Twenty-Third District-Clarke County.)	
C. W. Ryan, Republican	5,157
Geo. McCoy, Republican	4,944
E. E. Edmonds, Democrat	2,395
O. C. Hughes, Democrat	2,413
O. T. Clarke, Socialist	706
Walter S. Vall, Socialist	893
(Twenty-Fourth District-Cowlitz County.)	
L. M. Sims, Republican	2,242
R. H. Mitchel, Democrat	1,056
W. O. Mallery, Socialist	359

(Twenty Fifth District-Wahkiakum County.)	
Joseph Girard, Republican	435
M. Gorman, Democrat	419
(Twenty-Sixth District—Pacific County.)	
Fred A. Hart, Republican	3,207
Fletcher Gorman, Democrat	6
(Twenty-seventh District-Lewis County.)	
H. H. Swofford, Republican	5,598
J. S. Siler, Republican	5,560
J. E. Lease, Republican	5,633 3,716
Rufus S. Siler, Democrat	3,820
P. K. Hargreaves, Democrat	3,498
Nels Classe, Socialist	740
(Twenty-Eighth District-Thurston County.)	
C. C. Aspinwall, Republican	3,784
L. J. Morrison, Republican	8,257
A. S. Caton, Non-Partisan	1,864
Adam Copple, Socialist	765
Vol Eddy, Socialist	818
(Twenty-Ninth District-Grays Harbor County.)	
Geo. W. Gauntlett, Republican	4,447
A. E. Graham, Republican	4,352
H. T. Ash, Socialist	985
Louis E. Rader, Socialist	987
(Thirtieth District—Grays Harbor County.)	
M. C. Harris, Republican	1,394
C. W. Hodgdon, Democrat	1,841
O. C. Whitney, Socialist	583
(Thirty-First District—Mason County.)	
Mark E. Reed, Republican	1,103
Earl Crisman, Socialist	203
(Thirty-Second District—Kitsap County.)	
J. Howard Shattuck, Republican	4,357
W. E. Westerman, Socialist	847
(Thirty-Third District-Jefferson County.)	
William Bishop, Republican	1,343
H. B. Gardner, Republican	1,419
A. H. Tucker, Democrat	606
C. Bishir, Socialist	189
(Thirty-Fourth District—Clallam County.)	4.640
J. W. Lindsay, Republican	1,342
A. J. Cosser, Democrat	1,503 357
	<i>5</i> 01
(Thirty-Fifth District—Pierce County.)  Elmer E. Healey, Republican	4,184
Abe Morris, Republican	4,173
W. J. Octon, Democrat	3,352
H. J. Cothery. Democrat	3 244

(Thirty-Sixth District—Pierce County.)	
Guy E. Kelly, Republican	5,583
Torger Peterson, Republican	5,381
Wm. B. Burrill, Democrat	3,999
Wm. B. Chandler, Democrat	3,819
(Thirty-Seventh District—Pierce County.)	
J. H. Davis, Republican	2,724
Wm. C. Elliott, Republican	2,830 1,943
W. H. Coffin Democrat.	1,832
	2,002
(Thirty-Eighth District—Pierce County.)  Hiram E. Washburn, Republican	2,860
Geo. W. Thompson, Republican	2,352
	2,002
(Thirty-Ninth District—Pierce County.)	
Claude A. Young, Republican	4,459
Dr. W. P. Goff, Republican	5,131
Paul Newman, Democrat	8,818 514
Buwatu M. Denjamin, Honorion	014
(Fortieth District—King County.)	
Fred J. Mess, Republican	8.083
Walter J. Lunn, Republican	3,135
F. H. Tonkin, Republican	2,958 2,860
C. E. West, Democrat.	2,883
Fred Nelson, Democrat	3,006
Jas. Lund, Socialist	806
Allen Brooks, Socialist	808
(Forty-First District—King County.)	
Paul W. Houser, Republican	7,381
A. E. Fuller, Republican	7,214
John T. Casey, Democrat	6,511 6,307
Kate Lawrence, Socialist.	820
Carrie Payne, Socialist	793
(Forty-Second District—King County.)	
W. T. Christensen, Republican	12,338
Frank E. Boyle, Republican	11,146
Clarence L. Gere, Democrat	10,310
Geo. N. Hodgdon, Democrat	10,285
Walter H. Villiers, Socialist	946 975
(Forty-Third District-King County.)	
Victor Zednick, Republican	2,698
Ralph R. Knapp, Republican	2,613
A. E. Flagg. Democrat	1,872
Elizabeth Hutchinson, Democrat	1,728
Joe Miller, Socialist	185

(Forty-Fourth District—King County.)	
Robert E. Dwyer, Republican	1,547
Frank H. Monogue, Republican	1,484
Robert G. Cauthorn, Democrat	1,346
Tom. S. Patterson, Democrat	1,306
M. F. Carkeek, Progressive	22
Charlotte F. Jones, Socialist	106
Albert Heikke, Socialist	102
(Forty-Fifth District—King County.)	
Frank H. Renick, Republican	1,594
Robert Grass, Republican.	1,601
Richard Seelye Jones, Democrat	1.581
Joseph R. Manning, Democrat	1,550
Peter Desmore, Progressive	47
R. H. Smith, Socialist	172
Jessie Humphrey, Socialist	176
(Forty-Sixth District—King County.)	
Fred W. Hastings, Republican	4,247
Stephen A. Hull, Republican	3,992
Frank W. Cotterill, Democrat	3,68 <b>6</b>
Anna Louise Strong, Democrat	3,768
(Forty-Seventh District-King County.)	
John R. Wilson, Republican	9,581
E. H. Guie, Republican	9,453
Herman W. Ross, Democrat	5,706
Mrs. M. B. Harker, Democrat	5,806
C. F. Downey, Progressive	237
Emil J. Brandt, Progressive	257
Maud Francis Schmitt, Socialist	336
Lalla Rogers, Socialist	336
(Forty-Eighth District—Snohomish County.)	
Thomas N. Swale, Republican	5,986
S. Frank Spencer, Republican	5,880
Alex. Marsolais, Democrat	3,149
E. G. Reep, Democrat	3,314
George Bartlett, Socialist	1.723
Sam'l T. Roberts, Socialist	1,717
(Forty-Ninth District-Snohomish County.)	
M. G. Thomle, Republican	4,176
C. W. Gorham, Republican	4,038
C. H. Cleaver, Democrat	2,545
M. J. McGuinness, Democrat	2,500
R. W. Thompson, Socialist	1,204
W. J. Fortson, Socialist	1,190
(Fiftieth District—Island County.)	
W. E. Terry, Republican	874
Floyd Hatfield, Democrat	736
W. H. Hazen, Socialist	161

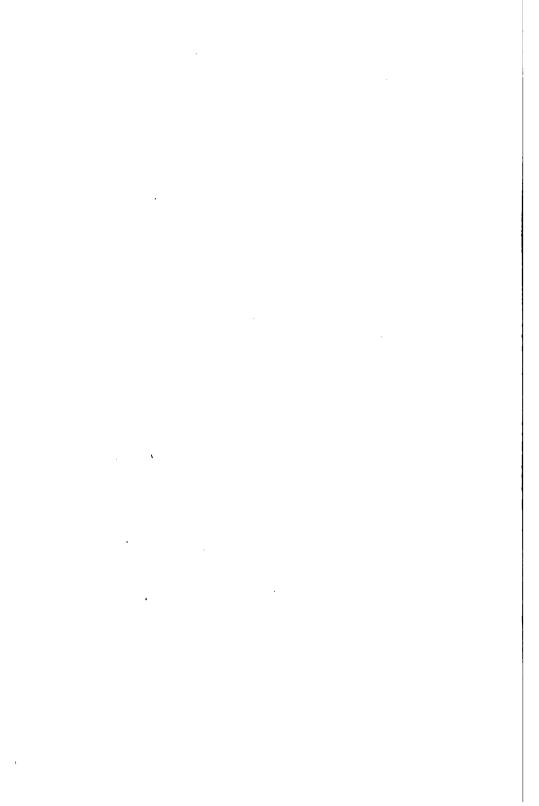
(Fifty-First District-Skagit County.)	
J. M. Shields, Republican	5,443
Fred B. Fulton, Republican	5,841
J. O. Rudene, Republican	5,953
I. E. Shranger, Democrat	3,559
Dora Cryderman, Progressive	561
W. W. Underwood, Socialist	1,088
Chas. Millward, Socialist	1,176
E. B. O'Grady, Socialist	1,137
(Fifty Second District—San Juan County.)	
E. H. Nash, Republican	864
P. A. Perry, Democrat	433
(Fifty-Third District-Whatcom County.)	
C. H. Hoff, Republican	8,395
Tom Brown, Republican	8,257
C. John H. Dahl, Democrat.	
M. C. Davenport, Democrat.	1,712
C. B. Legoe, Progressive.	2,367
Ernest Myers. Socialist.	1,064
J. A. Greenough, Socialist.	1,173
J. A. Greenough, Socialist.	1,186
(Fifty-Fourth District-Whatcom County.)	
Charles I. Roth, Republican	3,623
Fred D. Yale, Republican	4,050
F. J. Barlow, Democrat	2,824
Chas. S. Sampley, Progressive	1,401
Mrs. Morris J. Schwartz, Socialist	840
Frank Bickford, Socialist	817
(Fifty-Fifth District-Ferry County.)	
A. L. Bradley, Republican	768
Alex A. Anderson, Democrat	691
Peter Harrison, Socialist	216
(Fifty-Sixth District—Chelan County.)	
Sam R. Summer, Repulbican	2,625
S. A. Pool, Democrat	3,126
(Fifty-Eighth District—Benton County.)	
Gordon C. Moores, Republican	1.766
J. B. Clements, Democrat	865
I. N. Newkirk, Socialist	338
	_
(Fifty-Ninth District—Grant County.)	
A. H. Wilburn, Republican	961
John Urquhart, Democrat	1,261
Frank W. McCann, Socialist	724
(Sixtieth District—Pend Oreille County.)	
H. H. Murray, Republican	1.051
C. C. Thompson, Democrat.	1,008
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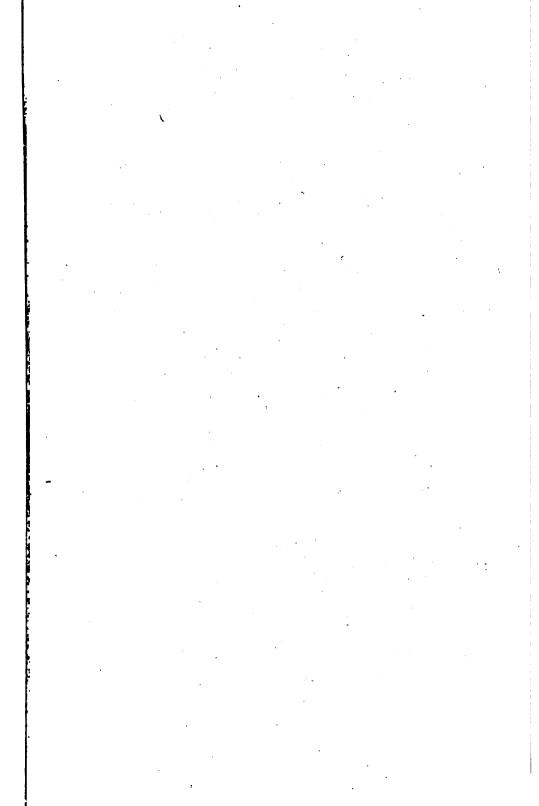
#### NON-PARTISAN JUDICIARY.

#### SUPREME COURT JUDGES.

SUPREME C	OURT JUDGES.
Chief justice	Overton G. Ellis.         Tacoma           Mark A. Fullerton.         Colfax           Stephen J. Chadwick.         Olympia           O. R. Holcomb.         Ritxville           John F. Main.         Seattle           Wallace Mount.         Spokane           Emmett N. Parker.         Tacoma           George E. Morris.         Seattle           J. Stanley Webster         Spokane
SUPERIOR C	OURT JUDGES.
Asotin county.  Benton county Chelan county Clallam county Clarke county Columbia county	John Truax         Ritzville           Chester F. Miller         Dayton           John Truax         Ritzville           Wm. A. Grimshaw         Wenatchee           John M. Raiston         Pt. Angeles           R. H. Back         Vancouver           Chester F. Miller         Dayton           W. T. Darch         Kalama
Douglas county	Sam B. Hill         Waterville           .C. H. Neal         Oroville           .John Truax         Ritzville           .Chester F. Miller         Dayton           .Sam B. Hill         Waterville           .Ben Sheeks         Montesano           .Geo. D. Abel         Montesano
Jefferson county	John M. Ralston       Pt. Angeles         John M. Ralston       Pt. Angeles         John M. Ralston       Pt. Angeles         A. W. Frater       Seattle         J. T. Ronald       Seattle         Roebrt B. Albertson       Seattle         King Dykeman       Seattle         Mitchell Gilliam       Seattle         Boyd J. Tallman       Seattle         Kenneth Mackintosh       Seattle         John S. Jurey       Seattle         Everett Smith       Seattle
Kititas county.  Klickitat county.  Lewis county.  Lincoln county.  Mason county.	.Walter M. French
Pacific county	.C. H. Neal       Oroville         .H. W. B. Hewen       South Bend         .Daniel Henry Carey       Colville         .Ernest M. Card       Tacoma         W. O. Chapman       Tacoma         M. L. Clifford       Tacoma         C. M. Easterday       Tacoma
San Tuen county	Angustus Decelor Mt Vomon

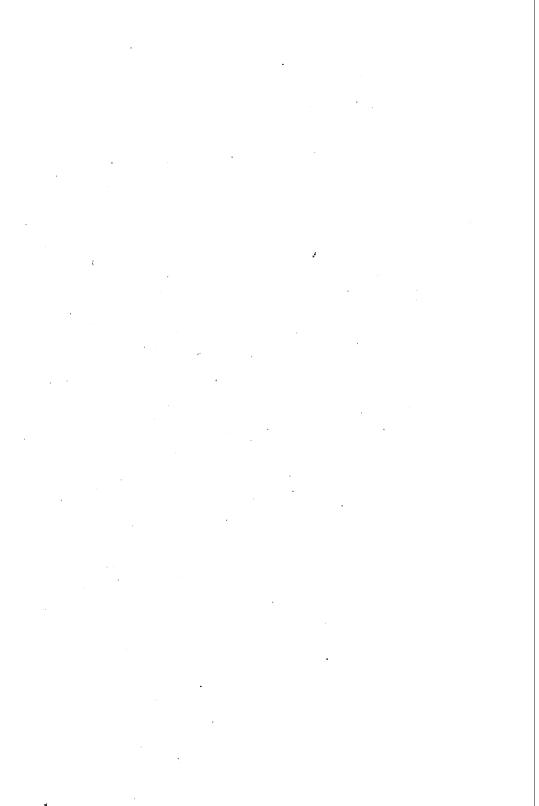
Skamania county	.W. T. DarchKalama
Snohomish county	.Ralph C. BellEverett
	Guy C. AltonEverett
Spokane county	.Wm. A. HunekeSpokane
	Bruce BlakeSpokane
	David W. HurnSpokane
	Hugo E. OswaldSpokane
	R. M. WebsterSpokane
Stevens county	.Daniel Henry Carey Colville
Thurston county	John R. MitchellOlympia
•	D. F. WrightShelton
Wahkiakum county	.H. W. HewenSouth Bend
Walla Walla county	.Edward C. Mills
Whatcom county	.Ed. E. HardinBellingham
	Wm. H. PembertonBellingham
Whitman county	R. L. McCroskeyColfax
Yakima county	.George B. HoldenNorth Yakima
	Harcourt M. TaylorNorth Yakima







Ĺ AND REPORTED AND ADDRESS.



#### STATE OF WASHINGTON

## Minutes and Official Proceedings

OF THE

# State Board of Equalization

**SESSION OF 1916** 

OLYMPIA, WASH.

FRANK M. LAMBORN PUBLIC PRINTER

1916

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#### PROCEEDINGS

OF THE

### STATE BOARD OF EQUALIZATION SESSION OF 1916

OLYMPIA, WASHINGTON. Tuesday, September 5, 1916.

In accordance with the provisions of the law relative to the proceedings of the State Board of Equalization for the equalization of taxes, the Board met in the office of the Commissioner of Public Lands on the 5th day of September, 1916, the following named persons designated by law as members of such Board being present: C. W. Clausen, State Auditor and Chairman ex-officio; Clark V. Savidge, Commissioner of Public Lands and Secretary ex-officio, and Arthur A. Lewis, member of the Public Service Commission.

On motion of Mr. Lewis, Fred G. Cook was elected clerk of the Board at a salary of \$6.00 per day.

On motion, the following program for the hearings was adopted by the Board:

September 7: Eastern Washington counties.

September 8: Western Washington counties.

September 11: Electric railways and small steam roads.

September 11 and 13: Steam railways.

The secretary was instructed to procure the use of the Senate chamber as a place for holding the hearings. The secretary was also authorized to secure the services of a stenographer.

On motion, the Board adjourned to meet Thursday, September 7th, at 9 a.m.

#### THURSDAY, September 7, 1916.

The Board of Equalization met at 9 a.m., with all members present, Chairman C. W. Clausen presiding.

The secretary reported the appointment of Miss Inez Mc-Kenzie as stenographer. The chairman outlined to those present the lines along which testimony was desired.

A telegram was received from Mr. W. T. Beck, representing the Spokane and British Columbia Railway, stating that it would be impossible for him to appear before the Board on the date fixed, and asking that the hearing be postponed until the 19th inst. The request was granted.

The following representatives from the various counties were then heard, as follows:

William Clodius, county assessor, on behalf of Adams county; W. G. Woodruff, county assessor, on behalf of Asotin county; A. H. Wheaton, county assessor, on behalf of Benton county; Ernest G. Spencer, county assessor, Dr. D. W. King, Will C. Shaffer, K. W. White, A. N. Corbin, on behalf of Chelan county; Blanche Beckett, county assessor, on behalf of Columbia county; K. W. White, county assessor, on behalf of Douglas county; Fred McCotter, county assessor, on behalf of Franklin county; George S. Brown, county assessor, on behalf of Lincoln county.

At 12 m., a recess was taken until 1:30 p. m.

The Board reconvened at 1:30 p.m., all members present.

The following representatives of the different counties were then heard:

W. D. McNair, county assessor, on behalf of Yakima county: Mrs. L. A. Kenney, county assessor, and E. K. Brown, on behalf of Kittitas county; W. R. Prowell, on behalf of Chelan county; J. L. Milner, county assessor, on behalf of Grant county; C. H. Knosher, county assessor, and Chas. E. Johnson, on behalf of Okanogan county; E. D. Purchase, county assessor, on behalf of Pend Oreille county; R. E. Nichols, county assessor, on behalf of Klickitat county; A. E. Dodson, county assessor, on behalf of Stevens county; M. C. True, county assessor, on behalf of Whitman county.

At 4:30 p. m. the Board took recess until the next day at 9 a. m.

#### FRIDAY, September 8, 1916.

The Board met at 9 a.m., with all members present, Chairman C. W. Clausen presiding.

Representatives of the different counties were then heard as follows:

E. A. Prickett, county assessor, on behalf of Clallam county;

E. A. Seaborg, county assessor, on behalf of Pacific county;

H. L. Hanson, county assessor, on behalf of Jefferson county;

J. M. Thatcher, county assessor, on behalf of King county;

T. D. Davies, county assessor, on behalf of Snohomish county;

H. D. McArthur, county assessor, on behalf of Whatcom county.

At 12 m., a recess was taken until 1:30 p.m.

The Board reconvened at 1:30 p.m., with all members present.

Telegraphic request was received from representatives of the Spokane & Inland Railway, asking that its hearing be postponed until September 14th, because of the inability of its representatives to be present on the date fixed. The request was granted.

Representatives of the different counties were then heard as follows:

James McClure, county assessor, on behalf of Lewis county; Sherman Hoover, county assessor, Alex Polson, Mark Reed, A. D. Graham, E. B. Arthaud, E. J. Mourant, J. E. Calder, F. H. Lamb, R. H. Fleet, M. C. Harris, on behalf of Grays Harbor county; James J. Cameron, county assessor, on behalf of Pierce county.

At 4 p.m. the Board took recess until September 11th at 9 a.m.

#### Monday, September 11, 1916.

The Board met at 9 a.m., with all members present, Chairman C. W. Clausen presiding.

The secretary read a request from the board of county commissioners of Clallam county, asking that they be given an op-

portunity to be heard on September 13th relative to the valuations placed upon property by the various assessors of the state. The secretary was instructed to advise them that they could be heard on either the 14th or the 15th inst.

The following representatives of transportation lines were then heard:

Walla Walla Valley Railway Company, Wm. H. Galvani; N. W. Brockett, representing the Everett Railway, Light & Power Company, Puget Sound Traction, Light & Power Co., Puget Sound Electric Company, Tacoma Railway & Power Co., Pacific Traction Co., Puget Sound International Railway & Power Co., Western Washington Power Co., Pacific Northwest Traction Co., Washington Water Power Company, A. F. S. Steele; Loyal Railway, John P. Hartman; Grays Harbor Railway & Light Company, J. B. Bridges, and P. A. Bertrand, general manager.

At 12 m., the Board took a recess until 1:30 p.m.

The Board reconvened at 1:30 p.m., with all members present and the following representatives of transportation lines were heard:

Willapa Electric Company, J. S. Thornton; Peninsular Railway Company, M. E. Reed; Floyd H. Williams, representing the Bellingham and Northern Railway, Puget Sound and Willapa Harbor Railway, Seattle, Port Angeles and Western Railway, Tacoma Eastern Railway, Chicago, Milwaukee & St. Paul Railway, Idaho and Washington Northern Railroad, Milwaukee Terminals Railway; Northern Pacific Railway and Centralia Eastern Railway, by M. T. Sanders, tax commissioner, Charles A. Murray, western tax attorney and commissioner; Great Northern Railway Company, John L. Snapp; Columbia and Puget Sound Railway, F. Greene; Oregon-Washington Railroad and Navigation Company, O. G. Edwards; Spokane, Portland and Seattle Railway, J. C. Daries.

At 3 p. m. the Board adjourned until Thursday, the 14th at 10:30 a. m.

#### THURSDAY, September 14, 1916.

The Board convened at 10:30 a.m., all members present, Chairman C. W. Clausen presiding.

The chairman reported telephonic advice from the board of county commissioners of Clallam county to the effect that they desired to be heard on the 18th instead of the date fixed by the Board. The change was agreed to.

The secretary presented a request from the Cowlitz County Taxpayers' League to be heard Monday, the 18th. The request was granted.

Mr. Will G. Graves appeared before the Board on behalf of the Spokane and Inland Railway Company. Mr. Arthur J. Shaw appeared on behalf of the Spokane International Railway Company.

The Board then adjourned to meet at the call of the chair.

#### FRIDAY, September 15, 1916.

The Board met at the call of the chairman at 11 a.m., all members being present, Chairman C. W. Clausen presiding.

The following were heard:

North Coast Power Company, E. M. Hayden and H. L. Harris; Spokane and British Columbia Railway Company, W. T. Beck.

The Board then adjourned to meet Monday the 18th at 10:30 a.m.

### Monday, September 18, 1916.

The Board convened at 1:30 p.m., with all members present, Chairman C. W. Clausen presiding.

The following were heard:

Clallam County Commissioners, Devillo Lewis, Mr. Dan Earles; Cowlitz County Taxpayers' League, represented by J. T. Gear, Dr. Sims, W. A. Taylor; J. M. Thatcher presented a letter written to the county board of equalization of King county, by the Seattle Real Estate Association.

The Board adjourned at 2:40 p.m. until 9 a.m., Tuesday, the 19th.

#### Tuesday, September 19, 1916.

The Board convened at 9 a.m., with all members present, Chairman Clausen presiding.

The Board went into executive session for the purpose of equalizing the values of the different counties.

At 11 a.m. a recess was taken until 2:15 p.m.

The Board convened at 2:15 p.m. and went into executive session for the purpose of continuing with the equalization.

At 4:30 the Board adjourned, to meet at 9 a.m., Wednesday, the 20th.

#### Wednesday, September 20, 1916.

The Board convened at 9 a. m., with all members present, Chairman Clausen presiding.

The Board went into executive session for the purpose of continuing with the equalization.

At this session the fixing of values of steam railways was taken up.

At 10:30 a.m. the Board took a recess until 1:30 p.m.

At 1:30 p. m. the Board convened, with all members present, Chairman Clausen presiding.

The Board went into executive session for the purpose of continuing with the equalization.

At 4:30 p. m. the Board adjourned, to meet Thursday, the 21st, at 9 a. m.

#### THURSDAY, September 21, 1916.

At 9 a.m. the Board convened, with all members present, Chairman Clausen presiding.

The Board went into executive session to continue with the equalization.

At this session the valuations of electric roads were taken up.

At 11 a.m. the Board took a recess until 1:30 p.m.

The Board convened at 1:30, with all members present, Chairman Clausen presiding.

The Board went into executive session for the purpose of continuing with the equalization.

At this session the valuations of telegraph lines were taken up and completed.

The Board adjourned at 2:30 to meet at the call of the chairman.

#### SATURDAY, September 23, 1916.

The Board met at 9:30 a.m., in response to the call of the chairman; present, C. W. Clausen, chairman, Clark V. Savidge, and Arthur A. Lewis.

The Board went into executive session for the purpose of continuing with the equalization.

At 12 m., adjournment was taken until 1:30 p.m.

Upon reconvening at 1:30 the Board went into executive session for the purpose of continuing with the equalization.

The matter of fixing the general fund levy was then taken up. After an exhaustive discussion, a levy of \$1,826,578.00 was fixed, a rate of 1.85 mills, Messrs. Clausen and Savidge voting for this levy, Mr. Lewis casting his vote for a levy of 1.25 mills.

The superintendent of public instruction certified that from the last reports of county superintendents the total number of children in this state of school age is 304,600.

In accordance with the requirements of the law, a levy of \$10.00 per school capita was made, which, after deducting

\$972,587.00, receipts from all other sources, leaves \$2,073,413.00 to be raised by taxation. Therefore a levy of 2.10 mills on the total valuation of taxable property of the state was fixed by the Board for school purposes, amounting to the sum of \$2,073,413.00.

The total levy for military purposes was fixed at \$197,-468.00, a rate of 0.20 mills.

The total levy for permanent highways was fixed at \$1,481,009.00, a rate of 1.50 mills.

The total levy for public highways was fixed at \$987,-340.00, a rate of 1.00 mill.

The total levy for the University of Washington was fixed at \$468,396.00, a rate of 0.475 mills; for the Washington State College \$320,885.00, a rate of 0.325 mills; for the Cheney State Normal School \$88,861.00, a rate of 0.09 mills; for the Bellingham State Normal School \$88,861.00, a rate of 0.09 mills; for the Ellensburg State Normal School \$69,114.00, a rate of 0.07 mills.

On motion, the state tax for general purposes, amounting to \$1,826,578.00; for state school purposes, amounting to \$2,-073,413.00; for military fund, amounting to \$197,468.00; for the permanent highway fund, amounting to \$1,481,009.00; for the public highway fund, amounting to \$987,340.00; for the University of Washington, amounting to \$468,396.00; for the Washington State College, amounting to \$320,885.00; for the Cheney State Normal School, amounting to \$88,861.00; for the Bellingham State Normal School, amounting to \$88,861.00; for the Ellensburg State Normal School, amounting to \$69,-114.00; making a total of \$7,602,515.00, was levied and apportioned among the several counties of the state as indicated by Schedule E of this report. On motion, Schedule A, showing the returns of personal property, as equalized by the several county boards of equalization; Schedule B, showing the returns of real property, as equalized by the several county boards of equalization; Schedule C, showing the valuation of the operating property of railroads, electric railways and telegraph lines as revised, corrected and equalized by this Board; Schedule D, showing total assessment of all taxable property in the State of Washington, and Schedule E, showing the total amount of tax to be paid by each county, having been completed, were fixed and approved as hereinafter appended and are hereby made a part of the proceedings and actions of this Board.

The minutes of the previous meetings of the Board were read, discussed and approved.

There being no further business to come before the Board, on motion, the Board adjourned sine die.

C. W. CLAUSEN,
State Auditor and ex-officio Chairman of the Board;
CLARK V. SAVIDGE,
Commissioner of Public Lands and ex-officio

Secretary of the Board;
ARTHUR A. LEWIS,
Member Public Service Commission.

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# SCHEDULES

SCHEDULE "A"—Table I.—Abstract of Assessment of Personal Property in the State of Washington, as Returned by the County Boards for the Year 1916.

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118   \$\curreq \text{Constraints}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}   \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}   \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}  \text{Figs 10,000}   \text{Figs 10,000}   \text{Figs 10,000}    \text{Figs 10,000}                                                                                                                                                                                            \q		No.	1	Aver'ge value	İ		Aver'ge value			Aver'ge value			Aver'ge value	Value	No.	Value	Average value	e .
17.   2.752   28.50   18.075   18.465   2.252   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.655   2.65	Adams	118	i	\$24 45	16,530	\$41,306	2	2,384	\$5,760	37 . 33 .	806'9	\$18,060	31 c	<b>80,</b> 210	1,675	\$27,125	\$16	- 9
10   2   15   15   15   15   15   15   15	Asotin	<u>₹</u> 8		88	25 E	29,455	64 6	3 %	8 8	2 2 8	88,8 849	14,118	3 8	2, 40 2, 40 2, 40 3, 40 3, 40 3, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40 4, 40	200	17,900		21 00
10   10   10   10   10   10   10   10	helan	ج : :		3 6	4,910	28,480	4 6	3	3		1.5	20,00	8 24	88.	1.607	88.	2	*
11.8   6.557   16.02   1.672   2.382   1.98   106   173   4.68   5.98   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.58   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59   4.59	lallam	<u>6</u>		83	8	1,806	_	8	12		1,026	2,541	2 47	2,640	87.	7,908	7,	io d
113   4,500   55 50   10   10   10   10   10   1	larke	<b>9</b>		99	1,672	2,388	-	92	85.		8,0	10,592	28	8,088	786	8,5	?:	0,
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13   2,382   39   56   11,086   11,086   11,010   2,466   2,46   4,886   13,080   13,67   13,88   11,889   11,889   11,100   11,489   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,889   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11,899   11	Ferry	8		8	242	818	. 03	12	×		8	2,913		2,141	717	11,512	18	
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1,000   34,546   50.09   1,712   7,927   4,816   50.0817   6.911   56.0817   6.911   56.091   56.0917   6.911   56.091   56.0917   6.911   56.091   56.0917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.917   56.91	Tefferson	8		2	338	99	-	118	243		150	18		280	222	3,451	15	16
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137   3,100   27   1,100   28   4,778   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4   1,872   4	Vitsap	22 <u>8</u> :		88	88	200	69 (			:	819	26.5		19,245	38	11,016	2 2	
154   1,687   30   2,546   4,778   1,88   1,89   1,190   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,84   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   1,100   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2,94   2	Clicking	:		10 SE	5,5,5 5,6 5,6	8 5	9 6	5	3,6		0,0	8		7.405	143	18.54	2 22	
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55         1,038         18 87         90         604         2 00         500         522         13,056         2 40         47,000         2 4,000         2 00         522         13,056         2 40         47,000         2 47,000         2 314         2 4,000         2 314         3 4,06         47,000         2 80         47,000         2 314         47,000         2 314         47,000         2 314         47,000         2 314         47,000         2 314         47,000         2 314         47,000         2 314         47,000         2 314         47,000         2 314         47,000         3 4,00         47,000         2 314         47,000         2 314         47,000         3 314         47,000         3 314         47,000         3 314         47,000         3 314         47,000         3 314         47,000         3 314         47,000         3 314         47,000         3 314         47,000         3 314         47,000         3 314         47,000         3 314         47,000         3 314         47,000         3 314         47,000         3 314         47,000         3 314         47,000         3 314         47,000         3 314         47,000         3 314         47,000         3 314         47,000	Uncoln	:	_	80 11	1,398	4,160	61	15	2		906	18,736		7,121	8,468	51,068	7:	
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386         5,860         15 44         445         198         447         870         79         104         8,782         8,870         480         10,488         8,782         88         1,786         1,811         14,880           561         11,610         21         74         1,806         66         20         1,606         297         489         21,070         2,845         10,048           877         8,786         28         1,786         1,817         2,806         489         20,070         2,846         28,506         489         88,206         88,206         489         21,070         2,846         28,606         80         1,866         10,648         80         1,866         10,648         80         1,866         10,648         80         1,866         10,648         80         1,866         10,648         80         1,866         10,648         1,866         10,648         10,648         10,648         1,866         10,648         10,648         10,648         10,648         10,648         10,648         10,648         10,648         10,648         10,648         10,648         10,648         10,648         10,648         10,648         10,648         10,648	an Juan	56		18 28	4,810	12,807	61	67	15		83	1,756		1,452	22	80,	=	
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F55   11,610   21 07   342   393   246   68   206   8 02   4750   29,500   4 87   71,700   2.846   32,500   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600   3,600	kamania	<b>83</b>	_	21 30	88	8	-	*	œ		Si .	2		1 076	243	10,048	2	
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18.   182   4,457   24 46 57,858   24,467   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24,697   24	Vahiriakum	} <u> </u>	_	3 2	. 2	3	-	•	•		3	1,129		800	151	1,964	12	
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Spokane	3,534	43,685		1.128	980.6	8	100	81,230	123	4,688	1,175,640	258 75	10,428	92,280	80	잃
Stevens	8	15,500		40	250	6 25	*	145		9	20,002	114 54	400	2,300	£ 73	88
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8	Kitasp	1,240	11,896	98,	2	2,00	7,120	131,798	20,000	11,070	1,880	1,740	89
9	Kittitas	6,140	57,57	0,870	:	98.	009'6	98,	10,200	2,2	23	2	<u> </u>
3 5	Licklist	4,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 18,45 1	20,00	2,278	g	12,40	3,142	710	200,00	6,504	7 180 7 69 7	22.5	3 5
3 8	Lincoln	2,321	154,006	98.91	216	117,680	8,080	1.96	515	711.0	0,000	15.718	; 81
23	Mason	88	6.172	988		388	102,807	21,151	875	9.114	1.860		83
77	Okanogan	3,240	94,990	8,600	:	21,740	3,690	4,510	8,845	1,420	1,175	2,630	
28	Pacific	8, 6	208,0	02.3		36	107,387	88	112,760	10,00	200	20 5	28
8 57	Pierra Pierra	2,164	58.998	200.500	01	14,820	118.345	256,309	286,456	43,522	15,120	56.287	35
28	San Juan	980	8,750	715		4,585	8,210	46,710	140				88
8	Skagit	18	29,780	7,815		11,215	7,750	14,080	8		8	3,230	88
8:	Skamania	88	2,50	2		35	8,0	0,410	080	3,6	200	202	3 8
Z 8	Shokene Shokene	10,200	96,88	200	38	76,90	3,48	90,00	20,02	34.0	200.4	80.85	3 8
3 2	Stevens	3.648	40,080	971.6	2 10	12.142	802.08	2,245	26.565	21.986	18	8	8
2	Thurston	102,0	28,046	18,900	98	5,068	168,891	28,000	16,908	7,385	2,388		z
2	Wahklakum	100	4,086	2,300	:::::::::::::::::::::::::::::::::::::::	<b>8</b>	8,8	8 8		1,870	2,230	- 650	<b>;;;</b> ;
8	Walls Walls	6,813	678, PR	92.6		72,888	2,187	28	8 8	900 000	200	16,910	88
2 3	Whateom	3,300	28,210	17,530	8	068 101	2 2	95,01	200'0	202,62	042,21		3 %
3 28	Yakima	36,830	155,610	16,025	125	28,400	8,080	2,860	57,815	16,496	9,810	089,6	8
	el e to E	SECTION RICE	er 06.6 Arra	96279 6/10	101 404	9000	90 485 ONE	69 044 700	eo 911 90g	987.8 949	9167 689	\$164 SE5	
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Stock and   Purniture   Hay, grain   Intuines of and fattures and other farm and pool   restau-   products in rooms,   rants, lodg-   products in rooms,   rants, lodg-   products in rooms,   rants, lodg-   producers   14,720   12,817   16,725   18,606   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226   1,226		ま	83	*	88	88	28	\$	#	27	8	7	
\$8.60         \$184,660         \$40,075         \$4,780         \$80,370         \$189,170         \$2,925         \$80,065         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$11,15         \$		Wood, coal, wool, hides,	Goods and mer- chandise, including fixtures and appliances	Manu- facturers' materials, manufac- tured ar- ticles, etc.	Manu- facturers' tools, im- plements, machinery, etc.	Theatre furniture and motion picture machines	<del></del>	Money	Stock and fixtures of billiard and pool rooms, etc.		Hay, grain and other farm products in hands of	Hay, grain and farm products in warehouse, elevator or cold storage	
2,525         115,105         4,986         3,400         1,700         2,700         1,700         7,700         1,700         7,700         1,700         7,700         1,700         7,700         1,700         7,700         1,700         7,700         1,700         7,700         1,700         7,700         1,700         7,700         1,700         7,700         1,700         7,700         1,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         7,700         <	<u> </u>	096\$	\$184,650	\$10,075	94,730	009	\$126,170		526,33	28,085	\$11,415	306,900	
2,706         44,0         400,738         60,400         1,706         10,706         2,100         10,706         2,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100         20,100	-	20 00	78,700	4 965	3,400	200	38,65	:	36	7,022	8,4,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 2007,5 200	20,20	
2,550         11,756         14,756         1,990         26,776         15,780         2,070         25,196         27,100         25,196         27,100         17,100         1,990         126,235         15,780         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100	:	36,4	400,780		800	202	101,420	96855	12.817	16,728	8,86	88	
2,506         991,060         22,170         467,066         8,100         70,487         15,850         3,180         11,028         770           3,250         111,612         1,000         180,482         3,00         15,186         1,470         2,186         1,510         2,186         1,510         2,186         1,510         2,186         1,510         2,186         1,510         2,186         1,510         2,186         1,510         2,186         1,510         1,510         2,186         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510         1,510	•	77.5	20.	1.175	147,840	1.890	287		2,070	25.196			
3,250         111, 915         7,000         18,983         300         187,355         1,470         2,189         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985         1,985		9	080	8	700 000	8	784	5.850	8	11.098	2	98	_
9,250         117,642         1,000         180,628         1,150         1,470         2,534         1,610         2,000           8,250         118,470         2,632         1,800         400         1,110         2,134         1,610         2,000         2,000           454         89,337         1,875         1,000         1,762         3,000         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         1,200         2,772         2,772         1,200         2,772         2,772         1,200         2,772         2,77	:	35.	115 915	1	1	8	150.355		25.	1.866	516	367.298	
188,176         2,000         8,800         400         77,114         2,534         1 610         20,000           454         89,337         1,875         106,780         400         400         47,158         1,129         1,230         2,700           773         18,890         6,400         1,100         1,000         47,582         1,129         1,220         1,661           773         18,982         6,470         1,137,946         8,235         268,000         3,807         6,700         1,661           80         66,000         11,475         8,235         268,106         2,660         3,807         6,700         1,661           80         66,000         11,137,946         8,235         268,106         2,600         3,807         6,700         1,661           80         66,000         11,137,946         8,235         268,106         8,700         1,661         1,661         1,661         1,661         1,661         1,661         1,661         1,661         1,661         1,661         1,661         1,661         1,661         1,661         1,661         1,661         1,661         1,661         1,661         1,661         1,661         1,661         1,661 </td <td>:-</td> <td>920</td> <td>117 669</td> <td>28</td> <td>180</td> <td>3</td> <td>15.502</td> <td></td> <td>1.470</td> <td>2,580</td> <td>8</td> <td></td> <td></td>	:-	920	117 669	28	180	3	15.502		1.470	2,580	8		
25,226         1,875         100,780         47,675         1,190         775         2,000         2,000         2,000         2,000         2,000         2,000         2,000         2,000         2,000         2,000         2,000         2,000         2,000         2,000         2,000         2,700         1,187         2,000         2,700         1,187         2,000         2,700         1,187         2,000         2,700         1,225         6,500         2,700         2,700         1,225         6,500         2,700         1,225         6,500         2,700         1,225         6,500         2,700         1,225         6,500         2,700         1,225         6,500         2,700         1,225         6,500         2,700         1,200         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         <	:	3	169 478	909	8	ş	35		9 534	1,610	98.560	400.205	_
2,750         1,380         1,100         47,582         1,280         2,782         2,783         1,280         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783         2,783 <t< td=""><td>÷</td><td></td><td>200</td><td>200</td><td>100,001</td><td>}</td><td>2 6</td><td>5</td><td>1</td><td>600</td><td>86</td><td>-</td><td>_</td></t<>	÷		200	200	100,001	}	2 6	5	1	600	86	-	_
456         86,337         1,675         4,00         9,00         67,697         5,690         3,097         6,738         1,661           773         133,820         1,922         6,470         1,197         14,560         25,680         3,007         6,738         13,217           773         138,820         6,470         11,197         8,738         6,470         11,197         18         11,100         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         11,200         <	÷		3,5	2017	85	٤	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Day's	1 90 1	35	2,0		
2,720         135,800         1,900         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         1,100         <	:		36.5	200,1	36	3 8	30,15		3		2014	_	
2,723         13,828         1,722         1,723         13,828         1,723         13,828         1,723         13,828         1,723         13,828         13,828         13,828         13,828         14,859         25,828         25,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828         15,828	:	ē,	30.	200	3	3	20,00		28	02,1	100	_	
133   150,000   150,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11,000   11	:	2,730	153,860	1,928	1,610	082	3,50	9,63 57	78,80	200	13,217		•
1, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4, 450   4	:	85	228,822	6,470	1,197,845	8,236	203,090	22	6,470	00,10	8,610	-	
50,715         10,008,462         4,000         28,728         13,000         4,4567         7,104         57,000         33,000         100           29,615         13,725         14,121         169,866         1,475         4,286,514         6,000         1,996         16,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000 </td <td>:</td> <td></td> <td>30,80</td> <td></td> <td>11,435</td> <td></td> <td>14,550</td> <td>:::::::::::::::::::::::::::::::::::::::</td> <td>8</td> <td>£ 8</td> <td>1,280</td> <td></td> <td>9;</td>	:		30,80		11,435		14,550	:::::::::::::::::::::::::::::::::::::::	8	£ 8	1,280		9;
35,715         10,0000         428,514         85,110         77,104         57,804         31,710         57,804         31,710         57,804         31,710         57,804         31,710         57,804         31,710         57,804         31,710         57,804         31,710         57,804         31,710         57,804         31,710         57,804         31,710         57,804         31,710         57,804         31,710         57,804         31,710         57,804         31,710         57,804         31,710         57,804         31,710         57,804         31,710         57,804         31,710         57,804         31,710         57,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,804         31,80	:	8	88,620	980	20.50		41,667		2,000	8,300	30	:	_
98.65         138,725         14,216         166,866         167,166         160         1,995         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940         15,940 <td>:</td> <td>51,715</td> <td>10,013,486</td> <td>405,014</td> <td>2,309,780</td> <td>18,900</td> <td>4,288,814</td> <td>88,110</td> <td>10,10</td> <td>578,045</td> <td>21,710</td> <td>_</td> <td></td>	:	51,715	10,013,486	405,014	2,309,780	18,900	4,288,814	88,110	10,10	578,045	21,710	_	
29,615         87,735         106,345         3,770         13,600         90,000           27,62         1,187         1,100         10,180         106,345         3,770         13,600         90,000           27,62         1,187         10,180         1,186         2,106         1,186         2,006         1,186         1,100         13,600         90,000         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,600         13,6	:	8	133,725	14,216	166,360	1,475	909,10	3	98,	060,0		-	
2,002 418,711 10,904 275,604 4,005 11,703 223,441 1,005 2,005 21,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,005 13,	:	29,615	307,356	23.20	98,99	2,480	106,845	:	3,770	18,000	8	_	3 2
2775         418,704         10,984         4,880         185,684         4,865         4,066         4,166         4,066         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166         4,166	:	128	134,015	1,113	56,174	1,448	96,400	:::::::::::::::::::::::::::::::::::::::	2,046	3,700	20,0	_	_
2,082         41,3217         10,500         23,505         1,788         223,411         1,000         2,075         4,044         41,678         1,788         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,678         1,679         1,679         1,679         1,679         1,679         1,679         1,679         1,679         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670         1,670	:	275	418,704	10,864	275,694	7,880	188,680		4,566	989	23,62	_	
100   58,665   520   77,285   50   18,750   50   71,850   70   71,850   70   71,850   70   71,850   70   71,850   70   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850   71,850	:	2,000	413,217	10,500	200,200	1,738	223,441	1,060	2,075	8,	41,578	_	
359         212.870         3,770         64,460         945         183,069         2,220         12,575         13,610           8,810         82,462         8,187         87,460         10,180         10,180         10,600         10,600         10,600         10,600         4,867         10,600         4,867         10,600         4,867         10,600         4,867         10,600         4,867         10,600         4,867         10,600         4,867         10,600         4,867         10,600         4,867         10,600         4,867         10,600         4,600         2,610         4,600         2,610         4,600         2,610         4,600         2,610         4,600         2,610         4,600         4,600         4,600         2,610         4,600         2,610         4,600         2,610         4,600         2,610         4,600         2,610         4,600         2,610         4,600         2,610         4,600         2,610         4,600         2,610         4,600         2,610         4,600         2,610         4,600         2,610         4,600         2,610         4,600         2,610         4,600         2,610         4,600         2,610         4,600         2,610         4,600         2,610	:	100	53,965	ଛ	17,886	23	18,250	:	86	808'8		•	
88,686,664         1,127         89,796         1,075         89,479         89,479         1,075         1,000         1,120         1,000         1,120         1,000         1,120         1,000         1,120         1,000         1,120         1,000         1,120         1,000         1,120         1,000         1,120         1,000         1,120         1,000         1,120         1,000         1,120         1,000         1,120         1,000         1,120         1,000         1,120         1,000         1,120         1,120         1,000         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120         1,120	:	320	212,870	8,770	24,480	25	183,060	:	2,230	12,575	13,610		_
8,386,462         18,778         1,006,411         6/77         2,610         4,387           8,286,644         18,186         4,180         24,780         1,006,411         16,400         1,366         1,510         4,001           20,000         2,806         2,180         2,180         2,180         4,001         4,001           21,182,506         40,286         1,200         11,200         1,200         2,180         4,000           1,142,506         40,270         1,400         1,400         1,400         1,400         1,300         4,000           1,142,506         40,600         11,475         3,800         1,600         1,800         2,150         4,000           2,806         1,000,000         11,475         3,800         1,600         1,800         2,150         4,000           2,807         4,476         3,800         1,000         3,800         6,077         8,000         2,250         8,000           2,807         44,770         44,770         44,770         44,770         44,770         44,770         44,770         44,770         44,770         44,770         44,770         44,770         44,770         44,770         44,770         44,770	:	121	169,454	5,127	804,948	1,075	62,479	ż	10,180	10,860	152	_	_
8,388 (94)         181,888         1,804,815         24,770         1,006,414         16,405         28,035         286,440         4,011           28,060         2,806         2,806         1,807         1,400         1,396         1,910         4,000           1,112,006         2,806         4,606         132,116         2,806         1,506         4,606           1,112,006         4,606         11,206         1,206         13,730         3,806         4,606           1,112,006         4,606         11,206         1,506         13,730         3,806         1,606           1,112,006         200,877         4,44,475         9,340         1,006         346         19,115         8,389         3,606         60,120           1,112,006         3,007         1,006         346         17,116         8,389         3,606         60,120         1,006           1,112,006         3,007         1,006         3,006         1,006         3,006         1,006         1,006         1,006         1,006         1,006         1,006         1,006         1,006         1,006         1,006         1,006         1,006         1,006         1,006         1,006         1,006         1,006	-	8.810	52,462	28,738	38,065	187	21,480	£	999	2,610	786,4	-	_
66,676         4,186         46,760         2,986         46,760         1,940         1,400         1,996         1,910         4,000           206,080         2,806         669,320         2,980         1270         2,680         7,060         4,000           1,142,906         40,865         1,000,000         11,475         386,600         760         13,730         03,880         1,886           6,316,483         7,000,000         11,475         386,600         760         13,730         03,880         1,886           220,877         444,477         9,380         1,006,346         19,115         38,585         6,007         8,000           220,877         42,700         20,880         1,706,346         19,115         38,585         6,007         8,000           221,60         47,700         20,880         1,726         460         20,100         6,007         8,000           247,447         44,270         447,089         1,726         248,281         1,526         27,440         1,80           774,148         342,004         447,089         7,722         286,381         1,526         27,440         1,80           760,700         10,000         1,400		81.240	8.388.984	181.868	1.804.815	24.780	1.098.414	16.405	28.085	288.450	4,011	_	
259,000         2,806         669,880         2,000         182,110         5,860         7,060         4,000           1,142,008         40,808         1,200         1,200         2,180         2,180         1,600           1,142,008         40,808         1,000,000         11,475         806,600         19,116         83,780         13,600           1,516,400         200,870         1,600,608         1,000,846         1,000,600         1,600         1,600           1,516,400         200,870         1,600,808         1,000,846         1,000,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600         1,600 <td< td=""><td>: :</td><td>332</td><td>98.676</td><td>4.185</td><td>46.780</td><td></td><td>19.400</td><td>1,400</td><td>1.806</td><td>1.910</td><td>8</td><td>-</td><td>_</td></td<>	: :	332	98.676	4.185	46.780		19.400	1,400	1.806	1.910	8	-	_
1,1683         4,688         160         11,200         1,475         250         26,180         2,180         1,886           1,142,506         40,888         1,000,000         11,475         386,600         780         13,780         63,880         1,886           1,186,488         7,876         77,882         9,880         70,800         70,800         6,077         8,080         60,078         8,080         60,078         22,166         80,080         60,078         9,000         6,077         8,080         60,077         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,216         82,21		913	950 000	908	680,890	8	182.150		5.850	7.050	4.805	_	_
1,142,505 40,865 1,000,000 11,475 886,680 780 13,770 05,080 1,886 65,087 80,0120 1,886 65,087 80,0120 1,886 65,087 80,0120 1,886 65,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087 80,087	:	100	90	5	1 30		- 20	S	\$	91.0	-		_
1,182,340	:	00,1	200.5	3 5	36.15		200	3 5	36	35	950		
6.516.400 200.2770 444,4770 9.5490 1,046.340 19,110 85,2240 389,600. 04,124. 156,468 7,7752 20,048 124,600 6,0776 22,215 225 225 225 225 225 225 225 225 225	:	3	1,142,800	900	1,000,000	0/4/17	200,000	8	80,00	3 8	36.	_	
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## SCHEDULE "A"—Table II. Abstract of Assessment of All Personal Property in the State of Washington for the Year 1916.

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No. of item	DESCRIPTION OF PROPERTY	Number	Value	Average value
	One year old	26,272 25,554	\$391,466 565,988	\$14 90 22 15
1	Horses: { Three years old and over	44,804 156,547	1,325,816 7,302,298 166,541	29 59 46 65 150 71
2	Mules and Asses	1,106	801,867	48 07 8 18
.8	Stock Cattle: { Two years old	119,657 74,417 60,807	979,223 1,088,272 1,182,980	13 95 19 45
4 5	Milch Cows	191,822 7,917	4,775,198 206,320	24 89 25 93
0	Stock Sheep and Goats	493,578	1,120,731	2 27
7 8	Sheep—Bucks kept for breeding purposes	8,574 156,338	32,413 509,101	3 78 3 26
9	Poultry		397,852	
10 11	Drays, Trucks, Wagons and Sleighs	65,667 33,075	1,135,160 450,242	17 28 13 61
12	Bicycles	3,670	27,100	7 38 56 87
18	Motorcycles Automobiles	2,574 35,794	146,379 8,876,775	246 00
15	Watches	39,796	384,075	9 63 16 02
16 17	Organs and Melodeons	11,102 56,959	177,817 5,152,878	90 47
18	Band Instruments, Violins, Phonographs and	,	• •	
19	Musical Boxes		337,579 863,672	8 81
20	Household Furniture, including clocks, rugs, gold and silver plate, paintings, statuary, engravings, etc.	ŀ	15,775,594	
21 22	Libraries, Books, Scientific Instruments, etc Office Furniture, Safes, Typewriters, Adding	••••••	816,406	
28	Machines, Cash Registers, etc		2,004,481 578,558	
24	Agricultural Implements, Machinery and		•	l
25	Mechanics' Tools and Implements		1,956,673 572,508	
26 27	Royalties, Patent Rights, Annuities, etc Threshing Machines, Hay Presses, Traction		727,404	ł
28	Engines, etc.  Donkey and Logging Engines, Pile Drivers,		882,198	ŀ
29	Hoisting Engines, etc		2,435,008 2,944,709	Ĭ
30	Barges, Ferries, Row Boats, etc Lumber		9 911 328	
31 32	Saw Logs		676,242	
33	Shingles and Lath	;	167,682	
34	Lumber, etc		164,555	
35	Goods and Merchandise, including fixtures and		259,061	
36	Goods and Merchandise, including fixtures and appliances used in business.  Manufacturers' Materials and Manufactured Articles, including brick, stone, building		28,176,627	
37	material, etc		1,529,165	
38	chinery, including engines and boilers		10,589,362 108,913	
39	Capital Stock of Incorporated Banks		10 100 008	
40 '	Money		172,856	

### Schedule "A"—Table II.—Concluded.

No. of item	DESCRIPTION OF PROPERTY Num	ber	Value	Average value
41	Stock and Fixtures of Billiard and Pool		908 908	
42	Rooms, Bowling Alleys, etc	- 1		
43	Lodging Houses		1,684,858	
44	of producers		513,815	
	house, elevator or cold storage		5,461,621	
45	Elevators, Warehouses, or other improvements on lands, the title of which is vested in any railroad company, or other person, firm or			
46	eorporation	• • • • •	1,064,450	
~	the United States, or leased from the state		1,143,872	[
47	Property of Gas, Electric Light, Power, Water, Telephone and other public service concerns,			Ì
48	including franchises	•••••	17,064,764 858,420	 
19	Value of timber held separately from land		1,392,459	
50	Leaseholds	•••••	465,542	]
51	All other items of personal property		1,357,818	
}	Aggregate value of personal property as equalized by county boards		\$154,521,063	
	Aggregate value of exemptions under section 5 of Law		29,890,236	
	Aggregate value of taxable property as equalized		\$124,630,847	

SCHEDULE "B"-Abstract of Assessment of Real Property in the State of Washington, as Returned by the County Boards for the Year 1916.

	COUNTIES	Total number of acres of land, ex- clusive of town and city lots	Number of acres fenced	Number of acres of timber lands	Number of acres of other unim- proved lands	Number of acres of improved lands
l l	Adams	1,108,327	1,041,492		298,896	814,441 89,174 27,379
•	Asotin	238,389	191,500		149,215	89,174
	Benton	793,688			766,309	
	Chelan	549,384	89,040	42,100	457,409	49,875
•	Olallam	531,067	18,522	389,473	123,679	17,905
•	Clarke	367,473	160,000	21,840	278,707	66,9≥8
	Columbia	356,369			175,194	181,175
3	Cowlitz	622,022	58,597	260,180	345,361	16,48
)	Douglas	917,247 155,427	744,367 48,166	60,102	408,567 (a) 81,242	508,850 14,063
	Ferry	669.540	450,968	00,102	339,720	329.8820
	Garfield	324.382	324,382		173,482	150,900
	Grant	1,405,940	731,395		985,316	470.624
	Grays Harbor	819.963	102,000	456,367	340,586	23.010
,	Island	120,125	13,600	17,850	90,975	11,300
	Jefferson	280,265	7,200	172,098	100,830	(b) 7.342
	King	825,178		308,382	452,428	64,36583
3	Kitsap	224,038	24,248	40,449	171,586	12,053
1	Kittitas	819,150	195,924	296,275		(c) 84,248
•	Klickitat	919,928	399,509	224,162	512,778	182,983
	Lewis	961,692	98,290	447,722	451,579	62,3991
	Lincoln	1,826,710	1,312,000		542,069	784,6551
}	Mason	409,585		167,638	231,548	(d) 10,3999 121.0831
ļ	Okanogan	574,224 526,578	316,549	62,157 322,603	391,096 179,888	(e) 24,0857
3	Pend Oreille	473,168	26,495	298,362	159.021	15.7835
	Pierce	660,415	20,580	313,002	295,774	51.68
,	San Juan	105.011	61,250	313,002	91,011	14.000
	Skagit	556,599	01,200	242,199	252,088	62,31.2
	Skamania	228,844	9,321	200.064	23,325	5,45-5
	Snohomish	560,173	49,640	158,586	363,180	38,40/7
	Spokane	994,879	567,243	78,687	540,551	(1) 375,641
	Stevens	1,029,506	180,240	210,375	731,131	88,000
ļ	Thurston	418,566		178,319	212,333	27,91-4
	Wahkiakum	150,525	7,250	58,776	87,699	4,050
,	Walla Walla	751,336	714,130		232,261	519,075
•	Whatcom	406,424	77,850	100,457	247,425	58,542
3	Whitman	1,247,947	1,241,131		292,867	966,080
•	Yakima	748,780			604,256	144,524

⁽a) Includes 5,275 acres of mining land.
(b) Includes 2,512 acres of oyster land.
(c) Includes 6,851 acres of coal land.
(d) Includes 3,123.50 acres of oyster land.
(e) Includes 15,824.44 acres of oyster and tide land.
(f) Includes 6,328.38 acres of railroad right-of-way not in operation.

Schedule "B"-Continued.

		lands	ion of timber as equalized unty boards	unimp	cion of other proved lands qualized by aty boards	land	ion of improves as equalized county boards	eđ
	COUNTIES	Aver- age value per acre	Total value	Average value per acre	Total value	Aver- age value per acre	Total value	•
1 2	Adams			\$1 91 3 00	\$552,925 447,645	\$10 10 22 87	\$8,223,230 1,995,685	1 2
3	Benton			4 48	3,397,005	60 74	1,663,075	3
4	Chelan	\$4 80	\$202,080	2 13	976,850	132 52	6,609,336	4
5	Clallam	28 14	9,013,425	7 44	919,970	80 88	562,085	5
6	Clarke		691,089	9 91 2 59	2,761,981	42 07 22 85	2,815,820	6 7
8	Columbia Cowlitz	15 66	4,078,949	8 30	458,950 1,140,461	28 23	4,140,160 465,298	8
9	Douglas	10 00		3 18	1,299,125	11 98	6,071,025	S
10	Ferry		845,872	9 94	(g) 807,691	15 52	(h) 224,582	10
11	Franklin		l	8 29	1,119,064	5 81	1,915,698	11
12	Garfield			2 94	510,090	16 22	2,448,020	12
18	Grant			2 59	2,420,100	9 96	4,688,670	18
	Grays Harbor		14,557,898	4 85	1,652,985	52 38	1,205,254	14
15 16	Island		876,240	7 52 6 69	684,182	36 61 84 98	(i) 256,472	15 16
17	Jefferson King		3,858,840 5,887,390	21.57	674,760 9,761,028	184.76	(i) 256,472 11,892,682	17
18	Kitsap		822,775	18 16	2,258,266	81 56	380,425	18
19	Kittitas	8 54	1.048.814	2 38	1,044,961	57 13	(1) 4,798,900	19
20	Klickitat		1,588,346	8 48	1,759,288	15 98	2,923,504	20
21	Lewis		7,489,705	4 76	2,147,726	31 10	1,940,090	21
22	Lincoln			2 01	1,089,420	16 70	(k)13,107,896	22
23	Mason	20 29	8,401,965	8 70	866,015		(1) 191,210	28
24 25	Okanogan		218,990 6,361,039	4 88 7 14	1,713,180 1,283,993	16 35 18 57	1,979,065 (m) 447,262	24 25
26	Pacific	6 44	1,919,955	3 70	588,377	15 70	247,797	26
27	Pierce		7,263,815	11 85	8,506,970	115 65	5,971,896	27
28	San Juan			3 93	357,496	25 00	350,000	28
29	8kagit	12 78	8,094,385	5 61	1,418,420	47 21	2,941,980	29
30	Skamania		2,102,922	22 51	524,958	83 98	185,090	30
81	Snohomish	27 96	4,484,000	18 68	4,951,955	52 28	2,008,080	81
82 33	Spokane	5 62	442,455	4 48 8 17	2,424,870	22 65 15 86	(n) 8,521,950	32 33
34	Stevens		945,520 3,373,961	6 78	2,815,520 1,439,042	24 03	1,395,912 670,872	34
35	Wahkiakum		726,460	8 16	276,900	11 23	45,500	86
36	Walla Walla		120,100	4 30	998,725	21 04	10,923,800	36
37	Whateom		2,021,108	18 26	8,279,716	42 18	2,469,299	87
38	Whitman			4 68	1,369,310	23 40	22,353,920	38
39	Yakima		63,840	2 42	1,465,945	84 32	12,187,275	88
	Totals		\$85,800,396		\$66,645,199		\$151,622,386	

⁽g) Includes \$481,696 valuation of mining lands.
(h) Includes \$5,000 valuation of railroad right-of-way not in operation.
(i) Includes \$82,008 valuation of oyster lands.
(j) Includes \$782,780 valuation of coal lands.
(k) Includes \$783,990 valuation of railroad right-of-way not in operation.
(l) Includes \$83,695 valuation of oyster lands.
(m) Includes \$14,080 valuation of railroad right-of-way not in operation.
(n) Includes \$14,080 valuation of railroad right-of-way not in operation.

### Schedule "B"---Concluded.

		proven	ation of im- nents on land ualized by ty boards	Valuation of city and town lots(ex- clusive of im-	Valuation of improvements on city and	Aggregate valuation of all responsive ing improvements (except	al d-
	COUNTIES	Aver- age value per acre	Total value	provements) as equalized by county board	town lots as equalized by county board	steam and electric railways as equalized b county board	) <b>)</b>
1	Adams	<b>\$</b> 0 74	\$604,910	\$248,741	\$648,505	\$10,273,811	1
2	Asotin	4 14	369,840	396,329	877,870	3,586,869	2
3	Benton	11 54	815,890	459,020	440,240	6,275,220	3
5	Chelan	15 98	796,995	1,424,527	1,848,800	11,358,088	4 5
6	Olailam	11 09 11 44	198,590 765,815	1,740,522 2,198,050	404,340 1,573,725	12,828,922 10,806,430	6
7	Clarke	1 66	300,840	220.580	481,600	5,597,130	7
8	Cowlitz	14 61	240,778	424,012	333,713	6,678,206	8
ğ	Douglas	0.86	496,065	169,538	282,255	8.258.008	ğ
ιōΙ	Ferry	8 57	120,692	133,673	145,371	1,777,881	10
1	Franklin	0 40	132,100	489,900	355,998	4,012,740	11
2	Garfield	1 54	282,690	141,890	226,890	3,569,580	12
8	Grant	1 29	606,980	802,450	309,180	8,327,330	1
4	Grays Harbor	48 18	998,645	8,617,421	2,908,970	24,935,621	1
5	Island	10 09	114,010	97,330	59,715	1,745,140	Ľ
6	Jefferson	26 24	195,030	739,922	510,080	5,729,604	10
7 8	King	45 82 45 58	2,949,060	125,208,477 1,524,677	46,791,200 572,390	202,484,787 6,107,998	li
9	Kitsap	7 41	549,465 573,790	1,872,225	1.540.430	10.379,120	li
0	Klickitat	8 54	647,870	466,443	439,151	7,824,602	9
ĭ	Lewis	10 65	664,601	1,787,698	1,452,739	15,412,544	1 2
2	Lincoln	1 85	1,455,874	360,698	1,116,355	17,129,742	2
3	Mason	10 35	107,605	111,285	126,845	4,794,925	2
4	Okanogan	4 15	502,555	388,202	832,370	5,084,362	1 5
5	Pacific	15 01	861,620	1,508,841	858,064	10,820,809	1 1
8	Pend Oreille	26 48	417,154	166,647	279,727	3,619,657	1.5
7	Pierce	49 86	2,574,565	29,764,544	14,245,545	68,327,334	13
8	San Juan	20 46	286,470	59,185	82,705	1,135,855	13
ا	Skagit	9 48 25 49	590,790 139,085	1,026,800 27,460	908, 185 59, 125	9,870,540 3,088,585	
ĭ	Snohomish	38 70	1,486,525	7,870,660	4,715,260	25,466,490	
2	Spokane	5 27	1,980,023	38,001,798	30,298,740	81,670,543	
3	Stevens	11 25	990,179	881,128	368,370	6.391.629	
4	Thurston	20 98	585,849	1,553,034	1,281,546	8,904,304	13
5	Wahkiakum	36 34	147,180	44,770	47,480	1,288,290	
8	Walla Walla	2 14	1,112,540	4,634,200	3,735,510	21,404,775	
7	Whatcom	16 49	985,285	4,647,687	3,539,526	16,922,571	
B	Whitman	1 44	1,877,820	1,472,150	2,857,170	28,980,370	
9	Yakima	18 81	2,718,770	8,718,890	3,772,180	23,926,400	1
	Totals		\$29,609,082	\$238,796,394	\$129,212,855	\$701,686,312	



Electric Railways and Telegraph Lines in the State of Washington, as Revised, Corrected and Equalized by the State SCHEDULE "C"—Table I.—STEAM RAILROADS.—Abstract of Assessment of the Operating Property of Steam Railroads, Board of Equalization for the Year 1916.

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	A CONTRACTOR IN	P.seA		Rig	REAL PROPERTY Right-of-Way and Tracks	PERITY and Track	<b>80</b>	PE Equi	PERSONAL PROPERTY Equipment and Rolling Stock	PROPERT Rolling 8t		TOTAL VALUATION Real and Personal	LUATION Personal
COUNTIES	TRACK	to to ralue (Pet.)	Mileage	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equalized	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Actual	Equalized value
Whatcom	Main Line Main Track Sidings	86.98	23.100	4,947 78	\$671,468 97,416	\$8,906 92 1,781 18	\$206,727 35,070	#4,379 11 875 88	\$101,158 17,244	\$1,576 48 315 30	\$36,417 6,208	\$672,621 114,660	\$242,144 41,278
	: :		26.516 6.063	18,554 00 2,473 87	14,999	6,679 44 880 50	177,112 5,400	8,284 487 91	87,087 2,656	1,182 36 157 66	31,351 966	17,066	208,468 6,356
	Totals		75.308	75.308	\$1,175,856		\$423,300		\$208,144		\$74,982	\$1,384,000	\$498,241
BLACK H	BLACK HILLS & NORTHWESTERN RAILWAY	WES	TERN	RAILWA	۲,								
	ACINIDA	p,ssv		Rig	REAL PROPERTY Right-of-Way and Tracks	PERTY and Track	100	PE	PERSONAL PROPERTY Equipment and Rolling Stock	PROPERT Rolling St	T ock	TOTAL VALUATION Real and Personal Property	LUATTON Personal
COUNTIES	TRACK	Talve Tet.	Mileage	Rate per mile.  actual	Actual	Equal- ized rate per mile	Equal- ized value	Rate per mile, actual value	Actual	Equal- tzed rate per mile	Equal- ized Value	Actual	Equalized
Grays Harb'	Grays Harb'r Main Line	8.8		1		12,880 41	47,000	73 777 47		\$0,298 \$1,412 G4 668 282 38	FB, 582	1,679	\$890 8890
	Sidings		750	1,494 42	1,121	26			1		\$8,744	200'628	11, 200 102, 118

Thurston	Thurston Main Line 40.00 Main Track Sidings	8	10.000	\$7,472 19 1,484 42	\$74,721   \$2,988 5,978   597	22,988 86 77 700	989, 939 2, 391	(8,717 47 743 49		\$87,175 \$1,486 99 2,974 297 40	1,190	\$111,896 8,962	8,561
-	Totals		14.000		860,600		\$82,280		\$40,149		\$16,080	\$120,848	948,340
Totals	Main Line— Main Track		12.500	\$7,472 12 1,494 42		7,099	\$86,986 2,817	\$8,717 47 743 49	3,562		\$19,402 1,402	\$189,800 10,681	\$56,890 · 4,219
	Totals		17.230		\$100,500	£100,500	208,800		\$50,000		\$19,804	\$1160,500	\$69,608
BLAKELY RAIL	RAILROAD.												
		Ass'd		Rig	REAL PROPERTY Eight-of-Way and Tracks	PERTY and Track	**	PE	RSONAL pment and	PERSONAL PROPERTY Equipment and Rolling Stock		TOTAL VALUATION Real and Personal Property	LUATION Personal
COUNTIES	TTON OF TRACK	to setual value (Pet.)	Mileage	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equalized	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Actual	Equalized Value
Мавоп	Main Line Main Track Sidings	37.00	17.580	\$6,750 00 1,360 00	\$118,066	\$2,497 50 499 50	\$43,906 1,498	\$2,880.29	\$50,284	\$1,058 31	\$18,605	\$168,949	\$62,511 2,133
	Totals			20.580	\$122,716	\$122,715	\$45,404		\$52,000		\$19,240	\$174,715	\$64,644

Schedule "C"-Table i.-Steam Railroads-Continued.

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	A CISTOR IO	Ass'd		B	REAL PROPERTY Right-of-Way and Tracks	OPERTY and Track	83	PE Equi	PERSONAL PROPERTY Equipment and Rolling Stock	PROPERT   Rolling St	T. Lock	TOTAL VALUATION Real and Personal	LUATTON Personal	
COUNTIES	TRACK TRACK	to sctual value (Pet.)	Mileage	Rate per mile, actual value	Actual value	Equal- ized rate per mile	Equarized	Rate per mile, actual value	Actual value	Equal- ized rate per mile	Equal- ized value	Actual	Equalized value	
King Skagit Snohomish Whatcom	(On line N. P. By.) (On line N. P. By.) (On line N. P. By.) (On line N. P. By.)	27.38 27.38 8.18 86.00	25.25.28 29.386 28.586 36.586	25.854 29.836 42.585 28.960				568 43 568 43 568 43 568 43	\$14,006 16,670 24,178 16,456	\$261 48 155 18 236 47 204 63	4,760 10,068 5,924	\$14,696 16,670 24,178 16,456	\$6,760 4,551 10,068 5,924	
	Totals		126.662			_			\$72,000		\$27,298	\$72,000	862,724	
CENTRALIA	LIA EASTERN RAILROAD	AILR	OAD.											
		Ass'd		2	REAL PROPERTY Right-of-Way and Tracks	DPERTY and Track	2	PF	PERSONAL PROPERTY Equipment and Rolling Stock	PROPERT Rolling St		TOTAL VALUATION Real and Personal Property	LUATTON Personal arty	
COUNTIES	TRAOK TRAOK	actual value (Pet.)	Mileage	Kate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Kate per mile, actual	Actual	Equal- ized rate per mile	Equal- ized value	Actual	Equalized value	
Lewis	Main Line Main Track Sidings	85.80	7.086	\$7,600 01 1,520 00	\$58,854 1,686	82,720 80 544 16	\$19,250 608	\$151 30 30 30	81,077	\$54 40 10 88	\$585 12	\$54,0811 1,720	\$19,605 615	
	Totals		8.196		\$56,540		\$19,863		111,13		100\$	199'99\$	\$20,280	
Thurston	Main Line Main Track	40.00	1.511	\$7,600 01	\$11,488	00 070°5	\$4,508	\$151 96	623	\$50 D\$	201	\$11,712	. 990,14	
Totals	Main Line— Main Track		8.567 1.109	\$7,600 01 1,520 00	-	1,086	\$23,873 608	\$151 96 80 80	\$1,806 \$4		#477 12	\$66,648 1,720	\$24,350 615	
	Totals		902.0		\$67,028	807,008	\$24,476	124,476	81,840	81,840	0874	\$08,303	\$24,900	

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		Ass'd		R	REAL PROPERTY Right-of-Way and Tracks	PERTY and Trac	ks	PE	PERSONAL PROPERTY Equipment and Rolling Stock	PROPERT Rolling St	Y	TOTAL VALUATION Real and Personal	LUATION
COUNTIES	TRACK TRACK	to to actual value (Pet.)	Mileage	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Actual Equ	Equalized value
Adams	Main Line Main Track Sidings	40.00	74.516	\$77,799 67 15,569 98	\$5,797,820 \$61,119 87 282,864 6,223 97	6,223 97	\$2,318,928 113,146	\$7,587 02 1,517 40	\$565,854 27,385	\$8,084 81 006 96	\$226,142 11,064	\$0,302,674	\$2,545,070 124,180
	Branch Lines— Main Track Sidings		2.488	15,559 98	9,671	6,228 97	184,196	1,517 40	44,907	151 74	17,963	505,408	202,161
	Totals	1	124.778		\$8,550,351		\$2,620,140	· · · · · · · · · · · · · · · · · · ·	9018,780	**********	\$255,516	\$7,189,140	\$2,875,656
Benton	Branch Lines Main Track Sidings	43.00	28.36	\$15,559 98 8,889 96	\$414,407 9,324	\$6,690 77 1,672 69	\$191,095 4,009	\$1,517 40	\$48,338	\$152 48 163 12	\$18,635	\$487,745	\$200,730
	Totals	44.100	30,958		\$458,731		\$195,104		\$14,247		\$19,026	\$107,978	\$214,130
Grant	Main Line Main Track Sidings	39.50	5.907	\$77,799 67 15,559 98	\$2,862,136 \$30,730 87 91,913 6,146 17	\$30,730 87 6,146 17	\$1,128,594 36,306	\$7,587 02 1,517 40	\$278,140 8,963	58,996 ST 588 37	\$100,805	\$8,130,276	\$1,236,459
	Branch Lines— Main Track		32.983	15,559 93 3,889 96	513,213	6,146 17	202,719	1,517 40	50,048	500 37 149 84	19,769	18,261	222,488
	Totals		78.724		\$3,469,600		\$1,370,496	contrator.	\$338,355	The formation of	\$133,650	\$3,807,964	\$1,504,145
Grays Harb'r	Grays H'br. B'ch—Sidings	88.8	2.181	78 977,78	\$16,968	88°,966	\$6,448	\$758 70	\$1,655	\$288 31	8029	\$18,623	\$7,077
King		48.00	51.873 52.975	\$77,799 67 15,559 98	\$4,085,702 \$35,787 824,287 7,157	386,787 85 7,157 57	\$1,856,423 879,172	\$7,587 02 1,517 40	\$838,561	\$8,490 03	\$181,088	\$4,429,263	\$2,087,461
	Everett Branch— Main Track Sidings		84.060	7,779 97	927,450 29,152	12,525 74 3,578 79	13,410	2,055 46	90,445	1,221 51	41,605	1,017,895	14,718

Schedule "C"-Table I.-Steam Railroads-Continued.

CHICAGO, MILWAUKEE & ST. PAUL RAILWAY-Continued.

	CLASSIFICA-	Ass'd ratio			REAL PROPERTY Right-of-Way and Tracks	OPERTY and Trac	ks	PE	RSONAL pment and	PERSONAL PROPERTY Equipment and Rolling Stock	Y	TOTAL VALUATION Real and Personal Property	LUATION Personal erty
COUNTIES	TRAOK TRAOK	actual value (Pet.)	Mileage	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Actual	Equalized
King	White River B'ch— Main Track Sidings		16.035	3,889 98	\$311,880	\$8,946.96 1,780.39	\$143,464	\$1,896 75	\$30,414	\$872 50 174 50	\$13,901	\$342,294 11,250	\$157,455
	Totals		161.325	***************************************	\$6,138,721	***************************************	\$2,823,811		\$508,647	***************************************	\$275,379	\$6,737,368	\$8,009,190
Kituitas	Main Track Sidings	38.30	90.620	\$77,799 67 15,559 98	\$7,050,206 \$29,952 448,842 5,990	5,990 57	\$2,714,329 172,804	\$7,587 02 1,517 40	487,586	\$2,921 00 584 20	\$264,701 16,852	\$7,737,742	\$2,979,080 189,656
	Main Track		7.041	3,889 98	109,558	5,900 57	42,180	1,517 40	10,684	581 20 146 05	4,113	120,242	46,298
	Totals		126.849		\$7,609,936		\$2,929,825		\$742,121		\$285,716	\$8,352,057	\$8,215,541
Pend Oreille.	Idaho & Wash. Northern Branch Main Track	40.60	70.763	78 611,118	\$2,202,135 \$12,634 79,963 8,158	\$12,634 67 3,158 67	\$894,067 32,465	\$8,004 81	\$214,752 7,798	\$1,232 13	\$87,189 3,166	\$2,416,887	\$981,256 35,631
	Totals		81.041		\$2,282,098		\$926,532	***********	8092, 550		\$00,355	\$2,504,648	\$1,016,887
Pierce	Main Track Main Track Sidings Grays H'br. B'ch	45.00	22 55	15,560	\$1,012,006	7,001	¥ 01	\$7,587 02 1,517 40	\$98,700 56,485 2,837	\$3,414 16 082 88 1,194 96 341 41	\$44,415 25,418 1,052 139	\$1,110,796 685,708 26,299 3,488	\$490,858 286,066 11,885
	Sidings		.408	7,770 97	3,174	3,500 99		758	1		\$71,00°4	182,777,18	\$799,826

8029,381 56,208	1815,700	\$457,568 19,984 41,282	108,890 5,481	058,200	1396,740 47,587	484,827	\$2,009,755 109,971	2,119,736	F79,964	765,196 19,984 207,149	35,256	727,788	308,373
								<u> </u>		1			
\$623,946 185,116	\$759,062	\$1,132,550 50,236 103,984	261,710 13,807	\$1,582,387	\$966,850 118,970	\$1,065,820	<b>\$4,900,391</b>	\$5,272,953	\$173,899	\$28,922,692 50,336 2,821,856	2,416,887	1,641,847	998,149
890, 23 1994,	\$28,067	\$40,657 1,776 3,668	9,282 487	\$65,820	4,236 4,238	\$38,502	\$178,576 9,77	\$188,347	\$7,108	\$1,045,394 1,776 107,200	87,180 3,166	6,302	35,416 4,996
\$1,104 67. 815 62		\$8,012 05 908 61 602 41	758 01 150 60		\$1,062 18 308 48		88,049 800 99		00 9884	: : :			***************************************
12,006	\$67,447	\$102,410 4,473 9,240	28,254	\$140,604	\$85,909 10,571	\$96,480	\$444,220 24,307	\$468,527	\$15,432	\$2,569,921 4,473 250,735	214,752	145,886	88,246 12,635
85.055 85.05		\$7,587 02 2,276 10 1,517 40	1,896 75 379 35		\$2,655 46 758 70	•	\$7,587 02 1,517 40		\$1,517 40	\$7,587 02 2,276 10 1,517 40	3,084 81 758 70	2,655 16 758 70	2,655 46
51,214	\$287,712	\$416,906 18,208 37,614	94,667	\$572,380	\$352,376 43,359	\$395,735	\$1,831,179 100,200	\$1,931,379	\$72,886	\$10,719 802 18,306 1,000,889	32,465	663,125	868,150
123,110 3,236 47		\$20,886 47 9,265 94 6,177 29	7,721 62		880,941 \$10,891 95 108,899 3,111 99		(81,275 47 0,255 09		\$7,157 57				1
•	\$19,199	\$1,050,140 45,863 94,744	238,456	\$1,441,783	\$880,941 106,899	\$980,340	\$4,555,171 249,255	\$1,804,426	\$158,447	\$26,352,771. 45,863 2,571,123	2,902,135	1,495,935	128,541
7,778		23,389 90 15,369 88	19,449 92 3,880 98		\$27,229 88 7,779 97		\$77,799 67 15,559 98		\$15,550 98	23,559 90 15,559 98	31,119 87	27,229 86 7,779 97	7,779 97
20.878 15.824	36.702	18, 496 1,965 6,060	3.231	37.046	32,352 13,963	46.285	.8.350 16.019	71.50	10.183	338.726 1.965 165.240	70.763 10.278	54.988 19.571	16, 1922
8 : :					60.04		46.20		96.00				*****
Everett Branch Main Track Sidings	Totals	Main Line Main Track 2d Main Track Sidings	Main Track	Totals	Grays H'br. B'ch— Main Track Sidings	Totals	Main Line Main Track Sidings	Totals	Branch Lines	Main Line— Main Track 2d Main Track Sidings Idaho & Wash.	Northern Branch— Main Track Sidings	Main Track	Main Track
Snohomish	9	Spokane			Thurston		Whitman		Yakima	Totals			

	CHICAGO, MILWAONEE		T PACE	KAILW	S SI. PAUL KAILWAY—Continued	cinuea.		-	a a moode	and and a party		The state of	A PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART
	OLASSIFICA-	Ass'd		Ris	REAL PROPERTY	and Trac	ks	Equi	FERSONAL PROPERTY Equipment and Rolling Stock	Rolling St	rock	Real and Personal	Personal
COUNTIES	TION OF TRACK	to actual value (Pct.)	Mileago	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Actual	Equalized
Totals	White River B'ch— Main Track Sidings		16.085	\$19,449 92 3,880 98	\$311,880		\$143,464	\$1,896 75	\$30,414		\$13,901	\$342,204	\$157,455 5,175
	Main Track		3,234	3,889 98	238,456		1,994	1,896 75	28,254		9,232	261,710	103,899
	Other B'ch Lines— Main Track Sidings		108,363	15,559 98 3,889 98	1,686,121		603,078 13,206	1,517 40	3,186		67,588	1,850,550	760,666
	Totals		862.161	***************************************	\$36,225,475		\$14,8/0,758		\$8,532,705		. \$1,449,219	\$39,758,180 \$16,309,977	\$16,909,977
EQUIPMENT Adams	Adams Main Line 40.00   Gover OW. R. R.	REIGN 40.00	LINES					•					
	& N. Co.) Main Track Sidings		19.140			***************************************	***************************************	\$7,587 02	\$145,216	\$8,084.81	\$58,086	\$145,216	\$58,086
	Totals	1	21.630		***********				\$148,994	1	\$50,697	\$148,994	\$59,507
Grays Harb'r	Grays Harb'r Grays H'br. B'ch. (Over O.W. R. R. & N. Oo.) Main Track 2d Main Track Stilling	38.00	42.180 2.570 14.790			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		\$1,517 40 758 70 879 85	\$64,004 1,950 5,611	\$676 61 988 31 144 15	284, 321 741	\$64,004 1,950 5,611	741
	(Over N. P. Ry.Oo.) Mein Track 2d Mein Track 8idings		1.350		4,680 11,350 18,748								2,609 880 1,082
	Totals	******	79.318	8				-	\$84,905	884,906	\$82,264	881,905	\$32,384

4 6 10	r-9 s	9	٠ -	~	954 5-1	. 23	- 26		-	
971,074 10,786 5,585	11,667 8,246 2,576	1,326	1967	\$107,187	1787, 5571 1789	\$23,422	\$17,881 1,726	43	120'024	<b>₽</b> 773
\$154,510 28,448 12,142	25,341 7,066 5,599	2,888	2,086	\$233,015	\$63,100	\$66,112	3,888	88	\$44,502	998,11
971,074 10,786 5,586	11,667 8,246 2,578	1,326	128 88	\$107,187	\$22,571 851	<b>223</b> , <b>42</b> 2	1,726	ğ	\$20,027	<b>\$</b> 778
\$8,450 08 1,047 01 608 00	8,490 08 1,047 01 098 00	00 869	00 869	:	88,224 48 644 86		\$682 88 170 71	88		\$681 24
\$154,510 23,448 12,142	25,841 7,056 5,560	2,868	2,086	\$238,015	\$58,100 2,008	\$55,112	\$80,735 3,882	288	209,144	\$1,859
\$7,587 02 2,276 10 1,517 40	7,587 02 2,276 10 1,517 40	1,517 40	1,517 40	:	\$7,587 02 1,517 40		\$1,517 40 879 35	1,517 40		\$1,517 40
										0+ 712,1\$
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20.365 10.302 8.002	3.3.100	1.900	1.342	52.041	7.000.	88.	26.186 10.108	.616	36.905	1.225
79.00				i	42.50		45.00	:		8.13
E P. S. 3ck Track	Irack r B'ch—	Co.) Track	Stdings	Totals	Main Line (Over OW. R. R. & N. Oo.) Main Track Sidings	Totals	Grays H'br. B'ch (Over Tac. E. R. R. Co.) Main Track Sidings	(Over N. P. Ry.Co.)	Totals	Terminals (Over N. P. Ry.Co.)
King					Lineoin		Pieros			Snohomísh

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"le "C"-	RAILWA
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CHICAGO	CHICAGO, MILWAUKEE	& ST.	PAUL	RAILW	ST. PAUL RAILWAY—Concluded.	Inded.							
	A CTB 133 A 15	Ass'd		Rug	REAL PROPERTY Right-of-Way and Tracks	DPERTY and Track	93	PE Equi	PERSONAL PROPERTY Equipment and Rolling Stock	ROPERT Rolling St		TOTAL VALUATION Real and Personal Property	LUATION Personal
COUNTIES	TRACK OF	to to actual value (Pct.)	Mileage	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Rate per mfle, actual value	Actual	Equal- ized rate per mile	Equalized ized value	Actual	Equalized value
Spokane	Main Line	56.70	52.590 . 1.290 . 9.260 .	52. 500 1. 290 9. 200				\$7,567 02 2,276 10 1,517 40	\$399,001 2,986 14,061	48,012 06 903 61 602 41	\$158,404 1,166 5,578	\$399,001 2,986 14,051	\$138,404 1,106 5,378
	(Over N. P. Ry.Co.) Sidings Idaho & Wash. Northern Branch— Over OW. R. R.		887.					1,517 40	998	602 41	798	965	<b>3</b>
	& N. Co.) Main Track Sidings		4.190					1,517 40	6,872	150.00	2,530	6,872	2,580
			70.407						\$424,023		\$168,388	\$424,024	\$168,338
Thurston	Grays H'br. B'ch (Over OW. R. R. & N. Co.) Main Track	90.04	1.740 .					\$1,517 40 879 85	\$2,640 315	\$606 96 151 74	81,056 126	98,640 315	\$1,056 126
	Totals		2.570						396,28		#H ,182	996'7	<b>\$</b> 1,182
Whitman	Main Line (Over CW. R. R. & N. Oo.) Main Track Skings	8			7.180			\$7,587 02 1,517 40	_	85,049 88 880 609 99	\$21,800 854	章 完聚 / :	801,800 804,804
					7.780				\$56,855	966,856	\$22,258	\$25,300	

							<del></del>		
15,198 15,198 18,850	40,813 1,130 6,361	\$435,043	\$16,300, <i>977</i> 435,043	\$16,745,020	/ALUATION d Personal	Equalized value	\$1,140,959 106,050 138,009	299,269 18,112	\$1,701,990
\$661,672 38,440 43,948	122,735 2,974 15,971	\$1,050,720	\$39,758,180 1,050,720	\$40,808,900	TOTAL VALUATION Real and Personal	Actual	\$2,480,347 228,370 301,324	86,586	\$8,700,000
15,198 18,850	49,813 1,130 6,361	\$435,043	\$1,449,219	\$1,884,262	TY	Equal- ized value	\$82,765 7,820 10,065	26,709	\$123,463
					PROPER I Rolling 8	Equal- ized rate per mile	42,450 42 737 84 491 89	983 78 245 95	
\$30,460 33,440 43,948	2,735 2,974 15,971	\$1,050,720	\$3,582,706 1,060,720	\$4,583,425	PERSONAL PROPERTY Equipment and Rolling Stock	Actual value	\$179,926 16,566 21,838	47,194	\$268,400
2,276 10 2,276 10 1,517 40	1,517 40 758 70 879 88				PE	Rate per mile, actual value	\$5,346 66 1,604 00 1,069 33	2,138 66 534 67	
			\$14,860,758	\$14,860,758		Equal- ized value	\$1,068,194 97,430 128,554	277,560	\$1,578,536
					OPERTY and Tracl	Equal- ized rate per mile	831,445 19 9,433 56 6,239 04	12,578 07 3,144 52	
			\$88,225,475	\$36,225,475	REAL PROPERTY Right-of-Way and Tracks	Actual	\$2,300,421 211,804 279,406	608,392	\$3,431,600
						Rate per mile, actual value	\$68,359 11 20,507 73 13,671 82	27,343 64 6,835 91	
100.615 14.602 28.908	80.885 3.920 42.101	280.176	862.161 280.176		RAILR	Mileage	33.652 10.328 20.441	22.067 5.342	91.830
			R.y. –		Ask'd	to actual value (Pct.)	46.00		
Main Line— Main Track 2d Main Track Sidings	Main Track 2d Main Track Skiings	Totals	RECAPITULATION Chicago, Milwaukee & St. Paul Ry.— Track and equipment. Equipment (only) over foreign lines.	rotals1,142.337	A & PUGET SOUND RAILROAD.	TION OF TRACK	Main Line Main Track 2d Main Track Sidings	Main Track	Totals
Totals			RF Chicago, Mil Track an Equipmen	Tot	COLUMBIA	COUNTIES	King		

GREAT NORTHERN RAILWAY.

Schedule "C"-Table I.-Steam Railroads-Continued.

	71.488TØTGA.	Ass'd		R	REAL PROPERTY Right-of-Way and Tracks	PERTY and Track	5	PE Equi	PERSONAL PROPERTY Equipment and Rolling Stock	PROPERT Rolling St	Y. toek	TOTAL VALUATION Real and Personal	LUATION	
COUNTIES	TION OF TRAOK	to setual value (Pet.)	Mileage	Rate per mile, actual value	Actual value	Equal- ized rate per mile	Equal- ized value	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Actual Equ	Equalized value	
Ohelan	Main Li Main Siding	8:13	96.601 36.412	\$88,206 79 17,668 36	\$5,878,657 642,794	7,287.88	£2,410,249 263,540	1,711 07	\$600,736 808,230	#8,507 69 701 54	\$239,616 25,544	\$6,446,456 705,097	\$2,643,886 289,090	
	Main Track		51.426 4.185	26,480 04	1,861,768	10,856 82	7,573	2,566 61	181,990	1,062 31	54,116 784	1,498,758	612,439 8,307	
	Totals		158.624		\$7,901,684		169,230,691		8766,878		\$314,010	\$8,067,502	\$3,568,701	
Douglas	De	40.00	3.588 3.586	\$88,266 79 17,663 36	\$1,356,249 \$85,306 63,287 7,061	7,061 84	\$548,300 25,315	\$8,566 86 1,711 07	\$181,660 6,134	85,68 14 88 148	2,454	\$1,489,890 69,421	\$506,960 27,769	
			60.880 5.504	26,480 04	1,611,019	10,692 02	9,716	2,566 61 427 77	156,150	1,026 64	62, 460 942	1,767,169	706,868 10,668	
	Totals		86.316		\$8,056,846		\$1,222,730		<b>8620</b> ,288		\$118,516	\$8,863,184	\$1,841,255	
Perry	Branch Lines Main Track	45.30	19.147	4,418 34	\$1,813,856 \$12,048 84,502 2,008	112,048 42 2,008 07	\$825,306 38,449	\$2,566 61 \$27 77	\$175,810 8,191	167 SI 194 64	879,994 8,727	\$1,989,006 92,688	\$006,299 42,176	
	Totals		87.046		\$1,808,858		<b>88</b> 63,754		<b>1134</b> ,001		<b>#88</b> ,721	998,380,38	\$647,475	
Grant	Main Line 89.50 Main Track	30.50	18.23	17,668 96 17,668 96	\$6,102,438 \$54,866 88 \$22,227 6,978 08	88, 886, 88 6,978, 08	22,015,463 127,280	1,711 of	931, 189 182, 18	88,879 88 675 87	\$196,351 12,387	,	\$2,210,814 189,617 188,850,481	
	Totals			70.000	ĺ		\$5,424,046		101,020	102.00	880' LOGS	. 1000, and		

92,011,211 194,470 464,186	130,866 5,244	\$2,806,970	\$2,061,914 121,465	#2,788,579	\$1,545,889 82,674	\$1,578,518	\$680,252 36,870	\$616,622	\$28,782	\$714,125 90,774	425,446 24,339	£1,254,684
44,872,107 422,774 1,000,100	11,464	\$96,000,00	\$6,263,527 285,800	\$6,549,127	<b>\$8,864,568</b>	\$8,946,282	<b>41,429,</b> 192	177,818,171	\$68,961	\$2,615,844 382,507	1,558,411	\$4,595,916
17,714 17,184 11,016	11,662	9247,930	\$236,210 10,738	\$245,943	\$136,502 2,887	\$139,479	\$61, <i>27</i> 2 8,214	\$54,486	\$2,548	8,021	\$7,598 2,151	\$110,866
1,180 64 787 09	988 87 196 77		88,686 727 00		41,086 64 11 171		\$8,473,47 604 69		<b>\$7</b> 69 98	26, 886 61 467 12	700 <b>68</b> 116 78	\$406,108
\$200,384 87,387 89,166	25,186 1,007	000'689	25, 254 25, 254	\$678,691	7,218	\$848,700	\$126,296 7,915	102,1201	\$6,662	29,381	187,704	\$406,108
2,566 61 1,711 07	2,188 84 427 77		\$8,566 35 1,711 07		\$2,500 GI		1,711 07		\$1,711 OF	\$8,666 35 1,711 07	2,868 61	
\$1,888,497 177,292 428,170	119,291	\$2,558,031	\$2,426,704 110,732	\$2,537,436	\$1,400,247 29,787	\$1,439,034	\$528,980 33,156	\$662,136	682,839	\$061,024 82,753	367,868 22,188	\$1,143,818
\$40,602 72 12,180 82 8,120 55	10,150 68 2,080 14		\$87,518 39 7,502 68		88,523,116 \$10,502 02 74,466 1,765 34		\$35,886 32 7,167 26		\$7,944 OI	\$24,006 83 4,819 37	7,229 05	\$4,189,818
\$3,995,968 \$35,417 919,984	250,328 10,308	\$6,500,985	\$5,709,890  \$97,518 260,546 7,508	\$5,970,436	<b>83, 523,</b> 116 74,466	\$3,507,582	\$1,802,906 \$1,664 7,167	\$1,384,570	608,309	\$2,384,704 \$24,066 \$08,126 4,819	1,420,707	\$4,180,813
266,286 79 26,480 04 17,688 86	22,066 70 4,413 84		\$68,266 79 17,668 \$6		480 04 4,418 34		\$89,286 79 17,653 36		\$17,968 36	\$88,266 79 17,663 36	26,480 Ot 4,418 84	
46.157 14.566 52.111	11.788 2.866	125.980	64.680 14.786	79.448	188.048 16.873	149.921	14.761	19.387	3.806	27.017 17.17	38.682 18.416	116.256
8.			43.50		8		6.0		45.00	27.30		
Main The Main Track 2d Main Track Sidings Everett & Cherry	Valley Branch— Main Track Sidings	Totals	Main Line Main Track Sidings	Totals	Branch Lines Main Track Sidings	Totals	Main Line Main Track Sidings	Totals	Main Line Sidings	Main Line Main Track Sidings	Track B	Totals
King			I Incoln		Okanogan		Pend Orelik		Plerce	Skagit		

Schedule "C"-Table I.-Steam Railroads-Continued.

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AT NORTHERN RAILWAY-Continu
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LUATION Personal erty	Equalized	\$8,614,960 205,780 400,145	62,239 2,082	₩,294,216	#2,296,348 40,568 440,565	257,737 9,907	\$3,014,215	<b>\$509</b> ,707	434,963 10,000	080 385 080
TOTAL VALUATION Real and Personal Property	Actual	48,689,787 494,664 963,519	149,662	\$10,322,687	\$5,781,734 102,186 1,109,737	649,211 25,183	\$7,068,051	\$2,866,214	1,378 612	64 VENT CHOR
Y ock	Equal- ized value	\$319,422 18,183 36,153	5,501	\$379,443	\$202,820 3,585 38,929	17,22	\$268,991	\$79,499 3,627	88,872 884	000
Rolling St	Equal- ized rate per nille	\$8,550 02 1,067 11 11 8117	880 751 177 98		88,396 47 1,018 94 679 29	1,358 50		\$1,077 97 06 602	808 48 184 75	
PERSONAL PROPERTY Equipment and Rolling Stock	Actual	\$767,843 43,709 86,905	13,224	\$012,123	\$510,883 9,029 98,058	57,365	\$677,560	\$262,879 11,516	121,816	1
PE	Rate per mile, actual value	2,566 61 1,711 07	2,138 84		2,566 61 1,711 07	3,422 14 865 54		\$8,422 14 855 54	2,566 61	
30	Equalized	\$3,295,528 187,597 372,992	56,756 1,896	\$3,914,773	\$2,002,528 36,983 401,636	934,963	\$2,775,224	\$820,208 37,424	395,801	100
PERTY and Track	Equal- ized rate per mile	586,718 98 11,015 74 7,343 8	9,179 7: 1,835 9:		885,041 92 10,512 56 7,008 38	14,016 76 3,504 19		2,780 40	8,841 21 1,300 20	-
REAL PROPERTY Right-of-Way and Tracks	Actual	\$7,921,944 450,95: 896,61	136,438	\$9,410,514	\$6,270,861 98,157 1,011,679	591,846	\$6,990,491	\$2,608,885 \$11,121 118,807 2,780	1,256 736	100
Rig	Rate per mile, actual value	\$88,206 79 26,480 94 17,663 36	22,086 70 4,418 34		\$88,266 79 26,480 04 17,553 36	35,306 71 8,826 68		\$35,306 71 8,826 68	26,480 04	
	Mileage	89.750 17.080 50.730	6.183	164.787	50.715 3.518 57.308	16.768	139,906	73.749 13.460	47.402	141 000
Ass'd ratic	to actual value (Pet.)	1.60			8			52.		1
÷	TION OF TRACK	Main Line Main Track 2d Main Track Sidings Everett & Chery	::	Totals	Main Line Main Track 2d Main Track Sidings		Totals	Spokane Falls & Northern Branch Main Track Slidings		Totale
	COUNTIES	Snohomish			Spokane			Stevens		-

		<b></b>											
\$1,109,779 102,791	\$1,212,570	\$18,438,218 440,824 2,150,554	198,112 7,326	1,157,444 51,048	4,630,154 128,163	\$27,196,843		\$49,878 14,963 3,959	\$68,800	\$101,402 30,421 3,754	\$435,577	28,466 28,466 2,853	\$126,140
98,088,720 285,589	\$3,308,249	\$45,770 149 1,019,624 5,287,709	434,126	3,505,425 155,506	12,052,200 342,218	\$68,583,966		\$148,008 44,400 11,748	\$204,156	\$343,737 108,121 12,727	\$459,585	\$206,133 61,864 6,203	\$274,220
200'08 8'08	\$107,145	81,829,228 38,962 190,027	17,068	102,273	409,127	\$2,408,132		\$49,878 14,963 8,959	988,800	\$101,402 \$0,421 8,764	\$135,577	28,466 28,466 2,858	\$126,140
88,079 98 615 99								\$2,863 15 864 96 576 68		\$2,523 89 757 15 504 77		\$3,985 46 1,180 64 787 09	
\$272,394 25,230	\$297,624	90,085 90,085 467,230	38,360	300,744	1,064,952	\$6,060,131		\$148,008 44,400 11,748	\$204,156	\$343,737 108,121 12,727	\$450,585	\$206,138 61,884 6,208	\$274,220
\$8,555 35 1,711 07		\$8,565 \$5 2,566 61 1,711 07	2,138 84	8,422 14 866 54	2,566 61			2,566 61 1,711 07		\$8,555 35 2,568 61 1,711 07		2,566 61 1,711 07	
91,011,717	\$1,105,425	\$16,808,990 \$01,872 1,980,527	176,049 6,679	1,065,171	4,221,027	24,788,691							
\$2,810,398 \$81,776 04 260,299 6,855 21	R3,070,025				: :								
1	<b>\$3</b> ,070,025	\$41,725,828 929,529 4,830,479	395,766 14,956	3,196,061	10,987,257 311,974	\$62,523,235							51.830
\$66,266 79 17,658 36		26,480 04 17,653 36	22,066 70 4,418 34	86,306 71 8,826 68	26,480 O4 4,413 34								
81.880 14.747	16.384	472.724 35.108 273.068	17.985 3.880	90.512 16.061	414.926	1,394.402	OVER N. P. RY. Vancouver, Wash.	17.290 17.299 6.886	41.465	40.178 40.178 7.488	87.78H	24.004 24.111 3.625	1
86.8						-	ceuver	33.70		82.50 25.00		97	
Main Line Main Track Sidings	Totals	Main Line— Main Track 2d Main Track Sidings Fiverett & Cherry	Valley Branch— Main Track Sidings	Main Track Main Track Sidings		Totals	SQUIPMENT (ONLY) USED OVER N. P. RY. Tracks between Seattle and Vancouver, Wash	Main Track 2d Main Track Sidings	Totals	Main Track 2d Main Track Sidings	Totals	Main Track 2d Main Track Sidings	Totals
Whatcom		Totals					EQUIPMENT Tracks betv	Clarke		Cowlitz		King	

Schedule "C"-Table I.-Steam Railroads-Continued.

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N RAILWAY-C	
NORTHERN	
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	A STRICE	Ass'd		翌	REAL PROPERTY Right-of-Way and Tracks	OPERTY and Trac	k8	PE	PERSONAL PROPERTY Equipment and Rolling Stock	PERSONAL PROPERTY quipment and Rolling Sto	'Y tock	TOTAL VALUATION Real and Personal Property	C VALUATION and Personal
COUNTIES	TION OF	to to sctual value (Pet.)	Mileage	Rate per mile, actual value	Actual value	Equal- ized rate per mile	Equalized	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Actual	Equalized value
Lewis	Main Track 2d Main Track Sidings	35.80	28.432 * 30.872 26.481					2,566 61 1,711 07	79,236 45,311	\$3,002 82 918 85 612 56	\$87,082 28,367 16,222	\$243,246 79,236 45,311	987,092 28,367 16,222
	Totals		85.785						\$367,798		\$131,671	\$367,798	\$131,671
Plares.	Main Track 2d Main Track Sidings	6.3	38.389 + 20.961 15.676					2,566 61 1,711 07	\$328,431 53,542 26,823	\$8,849 91 1,154 97 769 98	\$147,794 24,084 12,070	\$328,431 53,542 26,823	\$147,794 24,094 12,070
	Totals		74.926						\$408,796		\$183,958	\$408,796	\$183,958
Thurston	Main Track 2d Main Track Sidings	60.04	24.248 7.085 8.308					2,566 51 1,711 07	18,184 14,315	83,422 14 1,026 64 684 43	\$82,980 7,274 5,726	\$207,450 18,184 14,315	\$82,960 7,274 5,726
	Totals		39.666						\$239,949		\$95,980	\$239,949	\$96,980
Totals	Main Track 2d Main Track Sidings		172.641 140.406 68.452					2,586 61 1,711 07	\$1,477,006 360,367 117,127		\$563,967 133,585 44,584	\$1,477,005	\$563,957 133,586 44,584
	Totals		381.499						\$1,954,400		\$742,126	\$1,954,499	\$7.12,126
<b>.</b>	RECAPITULA TION												
Track and e	Track and equipment	ies.	1,304.402 381.499		\$62,523,235		<b>\$24,798,</b> 691		1,954,499		\$2,408,152 742,126	\$68,688,806 1,954,490	\$27,196,843 742,126
Gra	Grand Totals		1,775.901		\$12,528,285		\$24,788,001		\$8,014,630		\$3,146,278	\$70,587,865	\$27,988,900

LITTLE RIVER RAILROAD & LOGGING COMPANY.		REAL P Right-of-We
T COGGI	١.	Ass'd ratio
RAILROAD		CLASSIFICA-
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	A CTW TOO A	A88'd		Z	REAL PROPERTY Right-of-Way and Tracks	DPERTY and Track	20	PE	PERSONAL PROPERTY Equipment and Rolling Stock	PROPERT Rolling 81	'Y tock	TOTAL VALUATION Real and Personal	LUATION
ON THE ROOM	_		Mines	Date non				D. t		1			61.0
COORTIES	TRACK	actual value (Pet.)		mile, actual value	Actual	Equal- ized rate per mile	Equalized	mile, actual	Actual	Equal- ized rate tzed per mile value	Equal- tzed value	Actual	Equalized value
Olallam Main L	Main Line Main Track	30.00	7.000	00 008'98 000'2		<b>\$8</b> , 10 <b>0</b> 00	00 008,12 007,124 00 001,89 004,849	91,800 00	\$12,600	00 000	98,80	\$66,000	000'888

MARYSVILLE & ARLINGTON RAILWAY.

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	4 C19 100 A 100	P.sey		ž	REAL PROPERTY Right-of-Way and Tracks	OPERTY and Track		Edit	PERSONAL PROPERTY Equipment and Rolling Stock	PROPERT Rolling St		TOTAL VALUATION Real and Personal	LUATION
OT THE PARTY OF	CITABOLFICA-	181	Willeson					Date ner	-	-		TOTA	מנו
	TRAOK	actual value (Pet.)	`	mile, actual value	Actual value	Equal- ized rate per mile	Equal- fzed value	mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Actual value	Equalized value
Strohomish	Main Line 41.00 Main Track Sidings	6.14	15.000	1,900 00		\$120,000 \$8,329 00 16,852 665 60	849,920 8,802	6,802 \$1,085 42 6,802	\$16,28 9.12,2	\$4.51 58 90 31	# EF. 888	\$136,281 18,81	\$56,008 7,725
	Totals		25.250	25.230	\$136,352	1136,352	\$56,722	120,722	918,500	\$18,500	\$7,606	\$154,858	864,418

Schedule "C"—Table I.—Steam Railroads—Continued.

# MARYSVILLE & NORTHERN RAILWAY.

	A CITATO A	Ass'd		Raf	REAL PROPERTY Right-of-Way and Tracks	OPERTY and Track	8	PE] Equip	RSONAL 1	PERSONAL PROPERTY Equipment and Rolling Stock	Y	TOTAL VALUATION Real and Personal	LUATION Personal
COTTAMES	TO NOW	200	Wilson	Date nos		-		Doto non		-		dora	
	TRACK	actual value (Pet.)	o Managara	mile, actual value	Actual value	Equal- ized rate per mile	Equal- ized value	mile, actual value	Actual value	Equal- ized rate per mile	Equal- ized value	Actual value	Equalized value
Snohomish	Main Line 41.60 Main Track Sidings	41.80	7.500	\$6,140 36 1,228 07		946,058 \$2,554 39 6,447 510 88	\$19,156 2,682	<b>44</b> ,175 <b>44</b> 885 09	\$31,816 4,384	\$31,816 \$1,736 98 4,384 357 40	\$13,027 1,824	\$77,369 10,831	\$32,185 4,508
	Totals		12.750	12.750	\$62,500	252,500	\$21,840		\$35,700	835,700	\$14,861	\$88,200	\$36,601

## MILWAUKEE TERMINALS RAILWAY.

ALUATION Personal	Equalized value	\$13,074 10,054 30,310 17,762 138,104 9,144	
TOTAL VALUATION Real and Personal Property	Actual	\$33,524 20,107 20,107 41,792 25,360 25,360	
	Equal- ized value	\$6,135 3,626 111,138 6,460 (6,512 3,461	
PROPERT Rolling St	Equal- ized rate per mile	\$13,168 7,228 24,212 115,200 125,688 9,686	
PERSONAL PROPERTY Equipment and Rolling Stock	Actual value	\$13,168 7,252 24,212 15,200 125,500 9,566 \$196,000	
Pr	Rate per mile, actual value	#7,980 19,172 111,902 76,562 5,608	
83	Equal- ized value	\$7,989 6,428 19,172 11,302 76,562 5,603 8,172,126	
DPERTY and Tracl	Equal- ized rate per mile	20, 376 12, 866 14, 079 26, 562 170, 304 15, 614	
REAL PROPERTY Right-of-Way and Tracks	Actual value	\$20,356 12,856 11,679 26,592 170,304 15,814	
ž	Rate per mile, actual value	2879 110 110 110 110 110 110 110 110 110 11	
	Milesgo	861.00 944.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 98.00 90 90 90 90 90 90 90 90 90 90 90 90 9	
Ass'd	to ratual value (Pct.)	88.83.54.88 88.83.83 88.83.83	
OLASBIFICA-	TION OF TRAOK	landing and spur. 89.00 llanding and spur. 50.00 llanding and spurs 45.00 llanding and spurs 42.50 llanding and spurs 45.00 llanding and spur. 88.00 Totals.	
	COUNTIES	Jefferson Classiam King Kitsap Pierce Whatcom	

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	CLASSIFICA-	Ass'd		BA	KEAL PROPERTY Eght-of-Way and Tracks	OPERTY and Traci		Foul	PERSONAL PROPERTY Equipment and Rolling Stock	PROPERT Rolling St		TOTAL VALUATION Real and Personal Property	LUATION Personal erty
COUNTIES	TION OF TRACK	actual value (Pet.)	Mileage	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Actual	Equalized value
Ademe	Main Line Main Track Sidings Branch Lines— Main Track	90.04	57.516 19.242 19.681	24, 523, 78	¥	7701, 6600 \$822, 666 37 814, 5601 6, 589 68 482, 668 9, 800 51	\$1,890,679 125,837 3,290 198,061 4,800	\$16,302.68 3,200.54 4,800.80	\$087,066 62,739 90,256	1,956 88	\$875,0 <b>96</b> 25,096 38,502	85,689,864 877,880 678,900	\$2,255,745 150,983 281,568
	Totals			Š,	\$6,506,304	80,1	123,202,23	815 18	1,408	8	\$439,251	8,829	8,531 \$2,641,772
Benton	Main Line Main Track Sidings	43.00	43.780	\$51,745 98 16,349 19	88,575,485 214,747	36,150 75 7,090 15	\$1,537,459 92,841	\$16,302 68 8,260 54	\$713,063 42,887	\$7,010 15 1,402 08	\$306,617 18,416	\$4,286,548 257,574	\$1,844,076 110,757
	Totals		56.874		\$3,790,232		91,629,800		\$755,890	   	\$302,083	\$4,546,122	\$1,954,888
Olarke	Main Line Main Track Sid Main Track Sidinge Branch Lines Main Track	5.	17.800 17.290 7.869 27.249 8.911	981,745 98 24,663 78 16,349 19 24,563 78 4,087 80	#1,414,205 # 424,237 128,662 668,246 15,965	\$27,548 88 8,264 51 5,500 60 8,284 51 1,877 42	\$476, E87 142, 968 43, 356 225, 200 5, 387	\$16,302.68 4,890.89 3,290.54 4,890.80 815.13	\$282,086 84,606 25,657 133,269 8,188	1,648 20 1,648 20 1,648 20 274 70	28,512 8,646 8,646 1,074	#1,696,241 506,943 154,309 801,517	\$671,638 171,480 52,002 270,112 6,461
	Totals		73.628		\$2,651,327		\$800,488		\$528,756		\$178,190	\$3,180,083	\$1,071,668
Columbia	Dayton Branch Main Track	36.50	8.188 2.457	\$28,611 07 8,174 50	\$234,124 \$10,448 20,085 2,988	\$10,448 04 2,968 73	\$85,455 7,331	1,630 27	4,006	<b>182,082</b> 67 365 05	\$17,042	\$280,816 24,001	\$102,497 8,798
_	Totals			10.640	<b>8</b> 254,200	E54,200	\$92,783		\$50,008	869,034	\$18,504	\$304,907	\$111,290

NORTHERN PACIFIC RAIL WAY.

Schedule "C"-Table I.-Steam Railroads-Continued.

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	A CTUTOR A TO	P.887		R	REAL PROPERTY Right-of-Way and Tracks	OPERTY and Trac		Equi	PERSONAL PROPERTY Equipment and Bolling Stock	PROPERT Rolling St	Y ock	TOTAL VALUATION Real and Personal	LUATION	
COUNTIES	TRACK	to actual value (Pct.)	Mileage	Rate per mile, actual value	Actual value	Equal- ized rate per mile	Equal- ized value	Rate per mile, actual	Actual	Equal- ized rate per mile	Equal- ized value	Actual	Equalized value	
Cowlitz	Main Line Main Track 2d Main Track Sidings	83 22:	40.178 40.178 8.304	\$81,746 98 24,523 78 16,349 19	28, 284, 386 985, 316 135, 784	,224,386 \$24,115 06 966,316 7,234 66 135,764 4,833 01	290,689 40,060	\$16,302 68 4,890 80 3,260 5	196,500 27,075	1,442 79 861 86	\$1.98,228 57,968 77,987	1,181,819 162,830	\$41,162,122 848,687 48,087	
	Totals		88.680		\$4,405,468		\$11,299,613		19978,567		\$259,188	\$6,284,065	\$1,558,796	
Franklin	Main Line Man Track Sidings Waltula Branch— Main Track	43.00	1.781	281,745 98 16,349 19 28,611 07 8,174 50	55,488,131 689,596 50,986	\$35,150 75 7,080 15 12,302 76 8,515 07	\$1,490,918 298,516 21,911	8,202 de 18,202 de 15,705 se	136, 151	1,402 08 2,468 56	\$220,130 56,536	\$4,188,883 \$18,736 11,118	\$1,709,046 \$62,068 \$6,281	
	Other B'ch Lines— Main Track Sidings		41.508	24,58 4,087	1,017,894	10,646	487,6	8, 28,	•	2,108 850 850	1,502	2,1	9,085	
Grant	Totals	9	132.006		\$6,257,224		<b>12,26</b> 0,607		\$1,049,454		\$450,886	<b>#6</b> , 806, 678	<b>42</b> ,711,442	
	Main Track Sidings Other B'ch Lines—		2.708	\$28,611 07 8,174 50	\$547,966 \$11,301 22,086 8,228	\$11,801 37 8,228 96	8,728	1,680 27	4,407	86. 88. 88. 88. 88.	\$48,168 1,741	\$657,274 26,508	10,460	
	Main Track Sidings		66.188	24,523 78 4,087 88	1,623,106	9,086 89 1,614 48	7,028	200 SES	895'888 8,548	1,861 57	1,400	1,946,804	708,880 8,480	
	······	-: -:	88.8 <b>9</b>		<b>99</b> , 210, 990		8073 . 898		9140,080		1174,172	120,130,28	orra, 740, 14	_

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Grays Harb'r	_	8 : :	12.495 20.072	\$32,688 36 8,174 50	\$1,889,517 164,080	912, 425 38 8, 106 34	710,823	\$6,821 07 1,630 27	827,118 82,728	\$2,478 OI 619 50	\$105,308 12,435	\$1,006,030 196,808	\$638,320 74,786	_
	Other B'ch Lines— Main Track Sidings		97.472 11.360	24,523 78 4,067 30	1,409,481	9,319 04 1,563 17	585,584 17,644	4,890 80 815 13	281,084 9,260	1,858 50 309 75	106,812 3,519	1,000,515 56,602	642,396	
	Totale		181.300		\$3,009,460		\$1,143,546		\$600,180		\$228,069	\$3,600,640	₹1,371,664	
Jefferson	Branch Lines Main Track Sidings	8	26.400 1.288	\$24,523 78 4,087 30	\$647,428 5,240	99,564 27 1,594 06	\$252,497 2,044	815 13	11,045	11, 907 41 317 90	\$50,356 408	\$776,545 6,286	\$302,853 2,452	
	Totals		27.682		\$552,068		\$254,541		\$180,162	:	\$50,764	\$782,830	\$306,306	
King	::::	48.00	111.068 87.757 146.363	\$81,745 98 24,523 78 16,849 19	925,944 2,392,753	11,280 94 7,520 63	94,176,125 425,934 1,100,001	\$16,302 68 4,890 80 3,280 54	\$1,810,643 184,662 \$77,190	2,240 77 1,480 86	219, 508	\$10,889,082 1,110,606 2,869,943	\$5,008, <i>977</i> 510,879 1,320,175	
	Main Track Sidings		12.238	28,611 07 8,174 50	350,142 60,247	13,161 00 8,760 31	161,065 27,713	5,706 94 1,680 27	60,829 12,015	2,624 73 749 92	32,121 5,526	72,200	108,186 33,289	
	Other B'ch Lines— Main Track Sidings		79.389 20.333	24,523 78 4,067 30	1,946,918 83,107	11,280 94 1,880 16	88 88 88 88 88	4,800 80 815 13	388,276 16,574	2,249 77 374 96	178,607	2,336,194 99,681	1,074,190	
	Totals		414.498		\$14,887,650		\$6,825,319		\$2,959,089		\$1,361,180	\$17,796,730	\$6,186,499	
Kittitas	Main Line Main Track 2d Main Track Sidings	SS : :	73.174 8.460 60.067	\$81,745 98 24,523 78 16,349 19	\$6,981,677 207,471 982,374	81,472 18 9,441 66 6,294 44	<b>22</b> , 302, 945 79, 874 378, 214	16,308 68 4,990 90 8,260 54	41,192,982 41,876 196,916	25,276 53 1,882 96 1,255 31	15,980 75,428	\$7,174,609 248,847 1,178,290	\$2,762,224 95,806 458,642	
	Branch Lines— Main Track Sidings		7.180	24,523 78 4,067 30	176,081 88,139	9,441 66 1,573 61	67,79 14,688	4,890 80 815 18	35,116 7,606	1,862 96 313 83	13,520	211,197 45,745	81,311	
	Totals		158.232		\$7,386,742		<b>\$2,8</b> 43,500		\$1,472,946		\$667,086	88,868,688	\$8,410,594	
Lewis	Main Line Main Track 2d Main Track Sidings	88 : : :	• 28.482 • 30.872 28.341	24,523 78 24,523 78 16,349 19	\$2,324,200 757,088 463,352	8,779 51 5,863 01	\$882,064 271,041 165,880	\$16,302 68 4,890 80 8,260 54	\$468,518 150,969 92,407	1,167 27	25,28 26,05, 26,05,	\$2,787,718 908,087 565,759	\$255,008 3255,005 198,962	

· Includes 2.441 miles third track.

Schedule "C"-Table I.-Steam Railroads-Continued.

	1014100110	Ass'd		R	REAL PROPERTY Right-of-Way and Tracks	OPERTY and Track		PE	PERSONAL PROPERTY Equipment and Rolling Stock	PROPERT Rolling St	Y. tock	TOTAL VALUATION Real and Personal	LUATION Personaf
COUNTIES	TRACK	setual value (Pet.)	Mileage	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equalized	Rate per mile, actual value	Actual	Equal- ized rate per nille	Equal- ized value	Actual	al Equalized
Lewis (Concluded)	Grays H'br. B'ch— Main Track Sidings		4.000 2.030	\$32,696 36 8,174 59	-	\$130,798 \$11,706 01 16,564 2,926 50	\$46,824 5,941	\$6,521 07 1,630 27	905,084 8,300	\$2,334 54 568 64	\$0,338 1,185	\$156,877 19,900	\$56,162 7,126
	South Bend B ch— Main Track Sidings		26.184 6.382	28,611 07 8,174 50	749,152 52,170	10,242 76 2,926 50	268,196	5,705 94	149,404	2,042 73 588 64	53,487	808,550	321,683 22,402
	Totals		126.241		\$4,499,330		\$1,608,623		\$896,115		\$320,810	\$6,389,474	\$1,929,433
I.incoln	Main Line 42.50 Main Track Sidings Washington ('en-	42.50	16.622	\$81,745 93 16,349 19		\$1,358,781 \$34,742 02 100,678 6,948 41	\$577,482 42,788	\$16,302 68 3,260 54	\$270,983 20,078	\$6,928 64 1,385 73	\$115,168 8,588	\$1,629,764 120,756	\$892,650 51,321
	tral Branch— Main Track Sidings		66.075	28,611 07 8,174 50	1,890,476	12,150 70 8,474 20	22,551	5,706 94 1,630 27	877,080 10,582	2,425 02 692 86	160,238	2,267,496	963,685 27,048
	Main Track		17.924 207.	24,523 78 4,087 80	439,564	10,422 61	186,815	4,800 80 815 13	87,663	2,078 59 346 43	87,257 206	3,770	224,072 1,602
	Totals		114.039		\$3,845,708		\$1,634,424		\$766,953		\$325,954	\$4,612,656	\$1,980,378
Mason	Main Track	37.8	38.00	\$24,323 78 4,087 30	260 260 260 260 260 260 260 260 260 260	\$9,073 80 1,512 30	18. 18.0	\$4,890 80 815 18	_	14,085 \$1,809 60 73 301 00	£1,498	\$24,267 441	\$8,979 163
	Totals		5.6.		\$20,600		77.0,77		\$4,108		\$1,520	\$24,708	\$0,142
Pacific	South Bend Brh. 37.50 Main Track Sidings	87.50	30.498 8.408	8,174 50		9872,487 \$10,729 15 68,732 8,065 47	25,774	25,705 94 1,680 27	113,991	\$2,139 78 611 36	\$65,247 5,140		\$302,411 30,914
		-	88.901		\$941,100	\$641,100	\$339. KRH		\$187,608	\$187,608	\$70.887	#1,128,8671	

\$1,871,474 549,794 061,438	394,098 42,463 144,591	\$29,062 10,112 27,413	179,151 86,400 476,913 18,478	\$4,741,395	\$784,977 70,531	\$855,508	\$1,919,371 120,423 186,558	54,746 838,939 18,929	\$3,157,961	\$1,808,581 244,867 476,656
\$4,158,829 1,221,764 1,469,907	875,760 94,362 321,315	731,227 22,473 60,918	398,112 80,860 1,056,807 41,065	\$10,536,436	\$2,875,373 258,359	\$3,133,732	\$4,613,873 289,479	131,600 2,084,757 45,504	\$7,591,255	\$4,782,321 616,794 1,200,645
91,173 91,415 109,981	65,527 7,000 24,041	54,712 1,681 4,558	85, 62 250, 67 782, 67 770, 8	\$788,857	\$130,519 11,727	\$0.42,246	<b>2</b>	9,108 142,817 3,147	\$525,078	\$315,680 40,714 79,254
\$7,336 21 2,200 86 1,467 24	2,984 48 1,467 24 738 62	2,567 67 1,100 48 733 62	2,507 67 733 62 2,200 86 86 81		\$4,450 63 880 13		\$6,781 1,856 2,712	2,084 57 339 09		\$6,472 16 1,941 65 1,294 43
264, 404	145,015 15,000 53,426	121,582 8,787 10,129	66,195 13,450 176,215 6,828	\$1,751,909	\$479,092 42,968	\$621,060	\$707,155 49,182	21,880 348,310 7,566	\$1,262,208	\$796,163 102,556 199,633
\$16,808 68 4,880 80 8,280 54	6,821 07 8,280 54 1,680 27	5,706 94 2,446 40 1,630 27	5,706 94 1,680 27 4,880 80 815 18		\$16,302.68 8,260.54		816,302 8,260	1,680 27 4,890 80 815 18		\$16,802 68 4,800 80 3,280 54
\$1,500,301 458,379 531,477	\$28, 368 85, 408 120, 550	274,840 8,431 22,833	397,616 15,406	\$8,963,088	\$654,458 58,804	\$713,262	\$1,600,235 100,400 154,701	46,648 716,122 15,782	\$2,682,883	\$1,582,901 204,133 397,402
11,085 70 7,367 14	14,714 26 7,357 14 8,678 57	12,874 98 5,517 85 3,678 57	12,874 98 3,678 57 11,085 70 1,890 29		\$22,316 64 4,463 33		6,801	3,400 68 10,201 89 3,007,1		9,735 94 6,490 68
\$3,467,386 1,018,680 1,225,508	780,154 78,672 967,880	609,645 18,736 50,789	881,917 67,440 888,502 84,285	18, 784, 527	82,897,281 215,401	\$2,612,682	\$3,846,718 241,347 371.878	1,721,447	\$6,329,047	83,987,158 514,230 1,001,012
24,523 78 24,523 78 16,849 19	32,688 36 16,849 19 8,174 50	28,611 07 12,261 89 8,174 39	28,611 07 8,174 50 24,523 78 4,067 30		16,349 19		\$81,745 98 16,349 19	8,174 59 24,523 78 4,087 30		\$81,745 93 24,528 78 16,349 19
42.416 + 41.536 74.956	22.330 4.812 32.77	21.308 1.528 6.213	8.250 8.250 36.080 8.376	312.129	29.326 13.175	42.501		13.422 70.195 9.282	166.001	48.775 20.989 61.227
5.8					27.30		90.14			5.73
Main Line Main Track 2d Main Track Sidings	:::	. : : :	Main Track Sidings Other Bon Lines— Main Track Sidings	Totals	Main Line Main Track Sidings	Totals	Main Line Main Track Sidings Everett Branch Main Track	Sidings Other B'ch Lines— Main Track Sidings	Totals	Main Line
Репе					Skagit	-	Snohomísh			Spokane

Schedule "C"-Table I.-Steam Railroads-Continued.

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PACIFIC RAILWAY—Continued	
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	CLASSIPICA.	Ass'd	!	ra.	REAL PROPERTY Right-of-Way and Tracks	OPERTY and Trac	ks	PF	RSONAL ipment and	PERSONAL PROPERTY Equipment and Rolling Stock	'Y ock	TOTAL VALUATION Real and Personal Property	LUATION
COUNTIES	TRAOK	to actual value (Pet.)	Mileage	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal-	Actual	Equalized value
Spokane	kane Palouse & Lewis- ioncluded) ton Branch Main Track Siddings		25.238 3.862	\$32,666 36 8,174 50	\$625,241 \$12,981 31,570 3,245	\$12,981 25	\$327,621 12,533	\$6,521 07 1,630 27	\$164,579	\$2,588 86 647 22	\$65,338 2,500	\$969,820 \$7,866	\$392,95 <del>0</del> 15,083
	tral Branch— Main Track Sidings Other B'ch Lines—		23.676 2.679	28,611 07 8,174 50	21,900	3,245 31	968,926 8,694	6,706 94 1,680 27	135,094	2,265 26	53,682	812,490 26,267	322,558 10,428
	Sidings		.212	4,067 30	307 79	1,622 66	344	816 18	173	323 61	99	1,040	413
Thurston	Main Line Main Track 2d Main Track Sldinge	0.04		\$81,745 98 24,683 78 16,349 19	82,056,282 617,779	\$32,668 37 9,809 51 6,539 68		\$16,302 66 4,800 80		\$6,521 07 1,966 82 1,304 99	\$164,272 40,282	<b>3</b>	2967 2967
	Prairie Line— Main Track			32,698 36 8,174 59	561,202	18,079	20 20 20	6,521 07 1,630 27		2,608	44,768		
	Grays H Dr. B'ch— Main Track Sidings	::	10.124	32,60 <b>8 36</b> 8,174 50	381,068 25,047	18,079 84 8,269 84	132,415	6,621 07	66,019	2,608 43 662 11	1,998	397,067	158,823 12,017
	Main Track		28.452	28,611 07 8,174 50	814,042 98,808	11,444 43 8,269 84	825,617 80,359	5,705 PA 1,680 27	162,846	2,282 38 662 11	7,840	976,387	390,555
	Totals		134.480		\$4,672,263		\$1,968,004		\$031,798		\$872,717	\$6,604,066	\$2,241,621
Walla Walla.	Wallula Branch	42.00	11.606	928,011 07 8,171 50	_	1882,081 \$12,016 65 29,086 3.488 38	\$189,453	1,630 27	\$66,217	\$2,306 40 084 71	2,408	8898,248	\$167,264 14,451

1,194,487 55,614 461,809 6,900	\$11,819,266	998,120,14 56,53	289, 188 21, 708	\$1,880,196	\$660,006 40,413	406,469	\$1,883,685	\$2,508,239 319,921	1,002,422	\$8,967,565	\$28,086,952 2,542,951 4,497,299	42,463 12,463 169,185
2,677,207 128,416 1,074,544	1991,1881,148	\$2,888,508 154,427	780,644	\$8,888,879	100,813,671	1,008,625	\$8,441,876	\$5,432,680 695,478	2,179,179	\$8,407,727	\$50,420,068 6,587,748 10,700,884	1,548,892 94,362 392,801
186,900 9,247 78,040 1,081	\$302,492	9,244	8, 80 80 80 80 80 80	\$229,487	\$1154,048 6,720	07,418	\$20,069	\$417,047 58,194	166,674	\$643,064	\$4,670,055 492,830 747,768	7,080
2, 386 17, 386 17, 364 14, 36 38, 38		1,173 79	2,064 14 586 90		#8,081 47 656 37	1,966 10		1,50 %	2,249 77			
446,148 28,017 178,000 178,000	\$720,218	\$471,868 25,677	129,730 10,086	\$687,465	\$884,607 16,715	167,706	\$672,286	\$006,025 116,688	362,335 13,366	\$1,897,964	66 (t1), 542, 574 80 1, 047, 089 54 1, 779 243	257,536 15,690 63,649
6,706 94 1,660 27 4,860 80 81 818		\$16,308.68 8,260.54	5,706 94 1,680 27		\$6,021 07 1,080 27	4,800 80 815 13		\$16,302.08 8,280.54	4,890 80 815 18		8,4 8,8 98,8	8,380 07 1,880 57
987, 467 46, 367 876, 208 5, 164	\$1,516,778	\$651,966 46,350	284,804 18,009	\$1,150,700	\$775,448 83,668	888,050 6,386	\$1,153,576	266,727	886,748 80,883	\$8,224,491	2,120,131 3,749,501	558,060 36,408 141,055
12,016 66 3,436 33 10,230 90 1,716 67		5,886 71	10,290 90		\$13,144 74 8,296 19	9,868 56		\$1,580 ts	11,280 94			
2,228,064 110,896 865,878 12,807	\$8,611,868	28, 366, 546 128, 780	650,845 50,274	\$8,196,414	#1,998,974 89,814	340,920	\$2,869,591	\$4,546,055 579,840	1,816,844	\$7,000,768	\$67,877,500 5,460,704 8,921,891	1,291,856 78,672 819,132
28,611 07 8,174 50 24,883 78 4,067 30		16,349 19	28,611 07 8,174 50		\$82,698 36 8,174 59	22, BB2, 4, 087,		\$81,745 98 16,349 19	24,5828 78 4,087 30		\$61,745 98 24,563 78 16,349 19	32, 696 36 16, 340 19 8, 174 59
78.014 13.505 36.560 3.011	146.175	7.875	22.748 6.150	66.723	58.998 10.253	25. 28. 28. 28. 28.	107.422	55.612 35.466	74.085	181.561	70e.017 222.382 545.660	80.498 4.812 80.042
		88			£			\$6.00				
Dayton Branch— Main Track Sidings Other Bich Lines— Main Track	Тотай	Main Line Main Track Sidings	ı : :	Totals	. : : :		Totals	Main Line Main Track Sidings		Totals	Main Line— Main Track 2d Main Track Skillings	冶
		Whatcom			Whitman			Yakima			Totals	

Schedule "C"—Table I.—Steam Railroads—Continued.

NORTHERN PACIFIC RAILWAY—Concluded.
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JATTON	nualized value	\$848,305 98,928	1,323,055	185,553	522,238 10,112 60,652	509,706 88,608	714,004 53,316	1,545,888	198,545	,226,924 64,407	281,082
L VALUAT	Equalized value						E-			-	
TOTAL VALUATION Real and Personal Property	Actual	\$2,220,564 246,748	3,308,491 138,396	446,042 131,600	1,151,198 22,473 133,180	1,874,490	1,944,984	8,787,200	459,386	2,968,023 156,500	780,644
	Equalized	\$141,049 15,618	219,986 9,220	80,882 9,108	96,833 1,681 10,064	94,728 18,901	118,784 8,865	257,088	82,181 2,411	10,700	3,000
PROPERT Rolling St	Equal- ized rate per mile										
PERSONAL PROPERTY Equipment and Rolling Stock	Actual value	\$369,216 41,027	549,276 23,011	74,164	191,411 8,787 22,144	228,540 88,074	323,395 24,111	621,400 19,356	5,780	20,023	120,700
PE Equi	Rate per mile, actual value	\$6,521 07 1,680 27	6,521 07 1,630 27	6,321 07 1,680,27	5,705 94 2,445 40 1,680 27	5,706 94	5,706 94 1,680 27	5,705 94 1,680 27	5,706 94 1,680 27	1,680 27	5,705 94 1,630 27
90	Equal- ized value	\$707,256 78,310	1,103,069	154,701	435, 405 8, 431 50, 568	<b>474,980</b> 69,707	505,860	1,288,883	161,864	1,022,922, 53,698	284,304 18,000
OPERTY and Track	Equal- ized rate per mile								: :		
REAL PROPERTY Right-of-Way and Tracks	Actual value	\$1,861,348 206,721	2,754,215	371,878 100,719	969,787 18,736 111,086	1,145,969	1,621,589 120,902	8,115,860 97,067	28,987	2,406,188	060,845
Big	Rate per mile, actual value	8,174 59	32,606 36 8,174 50	32,696 36 8,174 59	28,011 07 12,261 89 8,174 50	28,611 07 8,174 50	28,611 07 8,174 50	28,611 07 8,174 50	28,611 07 8,174 50	28,611 07	28,611 8,17
	Mileage	56.619 25.166	84.231 14.115	11.373	38.546 1.528 18.588	40.063 20.287	56.677	108.904	18.386 3.580	98.107	
Ass'd	to setual value (Pet.)										
A CONTRACTOR	TRACK TRACK	r'ch—	Main Track	:::	::::	Main Track	i :::-	::	::	Main Track	Bellingham B'ch— Main Track
	COUNTIES	Totals		_							

	Lines— Main Track		28,081	24,523,78 4,067,80	14,500,226		6,106,639	4,800 80	2,909,742		1,217,838	88	.836 .077,499,968 777,488
_	Totals		2,907.069	· · · · · · · · · · · · · · · · · · ·	\$105,407,130	Services.	\$42,908,944	***************************************	\$21,021,455	**********			\$8,563,358 \$126,428,585
EQUIPMENT (Spoka	EQUIPMENT (ONLY) OVER FOREIGN LINES (Spokane, Portland & Seattle Ry.)	REIGN ttle Ry.	LINES										
Clarke	Main Line Main Track 2d Main Track	88.70	085	100000	3000	***************************************		\$16,302 68	81,386	\$5,491 00 1,648 20		\$167	\$167 \$1,896 140 416
	Totals		.179						\$1,802			\$600 P	\$1,802
Franklin	Branch Lines Main Track Sidings	43.00	3.368		***************************************		***************************************	\$4,890.80	\$121,483	\$2,108 04 850 51		1,181	\$52,237 \$121,488 1,181 2,745
	Totals		28.207	0.00000	00000000	000000		***********	\$194,998		100	858,418	\$53,418 \$124,228
Totals—E foreign	Totals—Equipment over foreign lines		28.377		**********	*********			\$126,080			\$54,025	\$54,025 \$126,080
Grat	Grand Totals		2,985.446	***************************************	\$105,407,130	*********	\$42,905,944		\$21,147,485		8,6	17,388	88,617,383,8126,554,615
DREGON	OREGON TRUNK RAILWAY.	AY.				Î					1 9		
	CLASSIFICA.	Ass'd		R	REAL PROPERTY Right-of-Way and Tracks	OPERTY and Trac	ks	PF	PERSONAL PROPERTY Equipment and Rolling Stock	PROPERS Rolling S	ry tock		TOTAL VALUATION Real and Personal Property
COUNTIES	TTON OF TRACK	to actual value (Pet.)	Mileage	Rate per mile, actual value	Aetual	Equal- ized rate per mile	Equal- ized value	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	75.00	Actu
Klickitat	Main Line Main Track Sidings	40.00	730	\$54,131 05		\$39,516 \$21,652 12 112,484 4,330 48	\$15,806	\$1,623 98 324 73	\$1,185	\$649 57 129 92		\$474	\$474 1,350 115,850
	Totals	******	11.120	11.120		\$152,000	\$80,800	860,800	84,560	84,560	100-	1,824	\$1,824 \$156,500

Schedule "C"-Table I.-Steam Railroads-Continued.

OREGON-WASHINGTON RAILROAD & NAVIGATION COMPANY.

mile, Actual actual value		M			Right-of-Way and Tracks	light-of-Way and Tracks
	454	Equal- ized s value		Equal- ized value	Actual Equal- Equal- value ized rate ized per mile value	mile, Actual Equal Equal- actual value ized rate ized value per mile value
\$4,797 82 \$197,430 959 56 7,859	74		\$1,387,132		\$84,272.98 \$8,467,881 \$83,700.17 \$1,387,132 16,884.89 138,089 6,741.84 56,216	98 \$3,467,881 \$83,700 17 \$1,387,132 39 138,089 6,741 \$4 56,216
1,439 35 13,386 239 89 173		91,049		75 94,049	10,112 75 94,049 1,685 46 1,214	235,121 10,112 75 94,049 3,084 1,685 46 1,214
\$218,848	1 3	119,785,	\$1,537,611	119,785,	81,587,611	\$8,844,025 \$1,537,611
\$1,919 13 \$98,385 479 78 4,085	57	\$705,324	94 \$705,324 73 30,476	\$705,324	\$33,700 17 \$1,640,288 \$14,494 94 \$705,324 8,427 29 70,873 3,623 73 30,476	\$1,640,288 \$14,494 94 \$705,324 70,873 3,623 73 30,476
\$07,420	1 :	\$735,800	\$735,800		\$735,800	\$1,711,161
\$900 26 \$480	96-	82,840	\$5,680 00 \$2,840	8	\$16,854 59 \$8,427 \$5,080 00	59 \$8,427 \$5,680 00
\$4,797 82 \$41,405 959 59 2,466	7	\$265,456	88.58		16,864 59 43,316 6,151 98	58 \$727,275 \$20,759 62 59 43,316 6,151 98
3,118 58 75,875 719 67 2,821		18,087	19,998 75	212	54,777 40 1,382,734 19,968 75 12,640 94 49,562 4,013 94	1,332,734 19,988 75
1,919 13 87,749 479 78 1,948		242,016	3,075 96	18.8	3,075 96	84,215 3,075 96
138		171,680	12,308 85	12,308 85	470,243 12,308 85	13.960 38,709 17 470,248 12,308 86
		0/2.2	3,075 96 2,270	9	3,075 96	29 6,236 3,075 36

5,890	2,847	\$611,869	\$106,996	\$205,476	\$661,587 8,377 52,022	138,608	\$763,381	\$386,961 47,569 258,374	106,3804	\$574 71,938 6,537 19,133 988 \$500,170
\$637,746 13,717	764,761 6,725	\$1,422,949	\$571,834 18,616	\$500,450	\$1,477,861 22,045 136,901	864,745 7,349	\$2,006,901	\$559,046 108,411 550,813	\$1,498,270	\$1,608 200,944 16,996 53,443 2,761 \$275,747
\$14,772 318	17,713 156	\$82,959	\$10,719 349	<b>£1</b> 1,068	\$80,250 451 2,802	7,466	\$11,119	\$20,780 2,562 13,648	\$27,000	3,875 8.52 1,081 5.34 5.34
\$2,068 06 412 61	618 92 108 15		\$667 86 166 96		\$729 27 273 47 182 32	546 95 91 16		#2,207 00 662 10 441 40		687 05 171 76 87 85 87 85
738	41,194 862	\$76,647	\$30,802 1,003	831,805	\$79,605 1,187 7,874	19,647	\$108,200	5,570 29,609	\$80,434	10,824 10,824 2,879 140 814,922
74,797 82 869 56	1,480 35 280 80		\$1,919 13 479 78		\$1,919 13 719 67 470 78	1,480 88 88 98		75,757 1,489 88 1,889 88		\$069   56 1,919 13 479 78 1,439 36 230 89
\$250,450 5,581	811,184 2,73	\$578,910	\$186,270 6,13	\$194,40E	\$631,337 7,92( 49,220	131,137 2,642	\$722,262	\$365,171 45,007 230,736	\$649,904	\$643 68,003 6,185 18,102
7,247 47	10,871 21 1,811 87		11,730 79 2,932 70		\$12,809 48 4,808 56 8,202 87	9,607 11 1,601 19		\$38,765 55 11,029 66 7,733 11	:	96,083 94 12,067 88 3,016 97 9,060 91 1,506 49
\$608,394 12,978	723,567	\$1,346,302	\$641,082.\$111,730 17,613 2,982	\$558,645	\$1,398,256 20,868 129,527	345,008	\$1,900,692	\$783,851 97,841 521,144	\$1,412,836 ·	\$1,617 180,120 17,276 50,564 2,612
884,272 98 16,884 50	25,281 88 4,213 65		<b>\$88,700</b> 17 8,427 29		\$88,709 17 12,640 94 8,427 29	25,281 88 4,218 65		\$84,272 98 25,281 88 16,864 59		38,700 17 8,427 29 25,281 88 4,213 65
7.100	28.620 1.510	38.060	16.060 2.090	18.140	41.480 1.660 15.370	13.650	78.800	9.420 3.870 80.920	44.210	.080 5.640 2.060 2.060 .820 10.400
43.00			34.80		38.00			46.00		35.80
Main Line Main Track Sidings	Main Track	Totals	Pomeroy Branch— Main Track	Totals	Grays Hbr. B'ch Main Track 2d Main Track Sidings	Other B'ch Lines— Main Track Sidings	Totals	Main Line Main Track 2d Main Track Sidings	Totals	Main Line Sidings Grays HD: Main Track Sidings Other B'ch Linee Main Track Sidings Totals
Frankiin			Garffeld		Grays Harb'r			King		Lewis

Schedule "C"-Table I.-Steam Railroads-Continued.

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	VOTE 150 TO	Ass'd		R	REAL PROPERTY Right-of-Way and Tracks	OPERTY and Tracl		PR	PERSONAL PROPERTY Equipment and Rolling Stock	PROPERT Rolling St	Y. :ock	TOTAL VALUATION Real and Personal	LUATION
COUNTIES	TRACK	to to value (Pet.)	Mileage	Rate per mile, actual value	Actual value	Equal- ized rate per mile	Equal- ized value	Rate per mile, actual value	Actual value	Equal- ized rate per mile	Equal- ized value	Actual	Equalized value
Lincoln	Main Line Main Track Sidings	42.50	7.000	\$84,272 98 16,854 50	\$689,911 \$85,816 22,754 7,163	\$35,816 00 7,163 20	\$250,712 9,670	\$4,797 82 950 56	\$33,585 1,296	\$2,089 07 407 81	\$14,273 551	\$623,496 24,049	\$264,965 10,221
	Totals		8.850		\$612,665		\$260,382		884,880		14,804	\$647,545	\$275,206
Pacific	Branch Lines Main Track	37.50	28.650	\$25,281 88 4,218 65	\$724,826 18,104	\$9,480 71 1,580 12	\$271,622 4,914	\$1,439 35 239 89	\$41,287 746	86.39 76 89 98	\$15,464	\$765,563 13,850	\$287,086 5,194
	Totals		31.760		\$737,430		\$276,530		990,114		\$15,744	617.0 413	\$292,280
Pierre	Main Line Main Track Sidings	45.00	2.340	\$84,272 98 16,864 50	\$197,190 \$37,922 181,297 7,564	7,584 57	\$88,739 59,084	84,797 88 850 88	\$11,227	\$2,150 02 431 80	\$5,062 3,364	\$208, 426 136, 772	\$98,791 62,448
	Totals		10.130		\$28,496		\$147,823		\$18,702		\$8,416	\$847,196	\$156,239
Spokane	Main Line Main Track 2d Main Track Sidings	39.70	38.046 1.575 7.700	25, 272, 98 25, 281, 98 16, 864, 59	\$2,784,799 \$33,456 3 39,819 10,036 3 129,780 6,691 2	\$33,456 35 10,036 91 6,691 27	\$1,106,566 15,808 51,523	94,797 82 1,489 85 869 56	\$159,544 2,267 7,389	\$1,904.73 571.42 880.96	\$62,942 900 2,988	\$2,943,343 42,086 187,169	\$1,168,507 16,708 54,456
	Main Track Sidings		18.740	68,204 70 12,640 94	2,884,731	25,092 27 5,018 45	1,125,388	8,598 36 719 67	161,886	1,428 55	64,070	2,996,117	1,189,458
	Other B'ch Lines— Main Track		4.100	25,251 86	103,000	10,036 91	191,119	1,439 38 380 38	5,901	571 42 95 24	2,348	100,557	48,494
	Totals				88,				EM0,041		\$138,500	\$6,479,897	\$2,572,518

\$104,178 6,770	122,810 7,714	\$241,472	\$2,530,308 67,038	247,185 7,188	786,908 57,73	80,656 2,245	114,922 6,248	347,125 2,450	\$4,249,146	\$257,000 4,226	2,779,206 77,879	1,135,960 31,725	770,841 24,088
\$260,448 18,188	307,027 19,284	\$604,942	\$6,024,746 159,615	568,535 17,101	1,871,199	192,086	273,025 14,875	886,487 5,884	\$10,117,012	\$689,528 10,510	6,913,448	2,825,770	1,917,516
\$5,612 866	6,615	\$13,008	\$136,800 3,611	13,815	42,888	4,345	6,180	18,666	8658,886	\$18,848 228	149,702	61,189	1,288
9707 66 191 91	575 26 28		\$2,015 08 408 02	302 26	1,800 80 302 26	806 03 201 51	306 201 51	30 50 100 75		\$1,928 72 385 74	1,446 54 289 31	867 98 192 87	967 96 192 87
\$14,029	16,588	\$82,518	8,586	31,702	100,798	10,844	14,730	44,519	\$544,967	834, 448 506	372,304	152,211	3,229
\$1,919.18 479.78	1,480 85		₩ 767.¥ 88.638	3,506 36	3,118 58 719 67	1,919 18	1,919 18	1,489 35		28 767,1 <del>1</del> 36 959	3,508 36	2,159 02 479 78	2,159 02
808,586 6,408	116,196 7,298	191 '8238	\$2,304,008 63,427	233,872 6,796	748,570 54,685	76,311	108,732	2,318	\$4,020,264	\$243,242 3,998	2,629,504 73,684	30,016	729,319 22,800
16,012 8,870 92	10,112 75		\$85,804 68 7,078 98	26,545 97 5,309 19	23,006 51 5,809 19	14,157 85 8,580 46	14,157 86 8,589 40	10,618 39 1,769 73		888,877 72 6,775 54	25,408 29 5,081 66	15,244 97 8,387 77	15,244 97 8,887 77
\$246,414 16,012	290,480	\$671,160	<b>#6,700,22</b> 1	556,883 16,180	1,770,406	181,692	256,886	781,968	\$9,572,066	9806,080 9,944	6,541,064 188,294	2,073,550	1,814,228
8,427 20	25,281 88 4,213 65		16,854 50	68,204 70 12,640 94	54,777 40 12,640 94	33,709 17 8,427 29	33,709 17 8,427 29	25,281 88 4,218 66		884,272 98 16,854 59	68,204 70 12,640 94	87,922 82 8,427 29	37,922 82 8,427 29
7.310	11.480	23.080	67.640 8.9%	1.280	32.320 10.300	5.390	7.680	30.980	176.890	7.180	108.400	70.309 8.860	6.730
6.0			42.00							<b>6</b> 0.30			
Grays Hbr. B'ch Main Track Sidings	Main Track	Totals		Colfax Branch— Main Track Sidings Pendleton-Grange	::	, ; ;		Main Track	Totals	:::	Main Track	branch rack	Branch— Main Track Sidings
Thurston			Walla Walla.							Whitman			

Schedule "C"-Table I.-Steam Railroads-Continued.

	1048400	Ass'd		Ŗ	REAL PROPERTY Right-of-Way and Tracks	PERTY and Trac		PE Equi	RSONAL pment and	PERSONAL PROPERTY Equipment and Rolling Stock	.v.	TOTAL VALUATION Real and Personal	LUATION Personal
COUNTIES	TION OF	ratio	Mileage	Rate per				Rate per		-		Property	erty
	TRAOK	actual value (Pet.)		mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Actual	Equalized value
Whitman (Concluded)	Other B'ch Lines— Main Track Sidings		43.580	\$25,281 86 4,213 65	\$1,101,784 26,335	\$10,168 32 1,693 39	\$442,917 10,567	\$1.439 85 239 80	1,490	\$678 62 96 44	\$25,216	\$1,164 511	\$468,133 11,190
	Totals		309.520		\$13,086,000		\$5,260,837		\$745,048		\$299,510	\$13,881,708	\$5,560,347
Yakima	Yakima Branch Main Track Sidings	46.00	14.320	\$83,709 17 8,427 29	\$1,406,684 \$15,506 22 120,679 3,876 55	\$15,506 22 3,876 55	\$547,075	479 18	\$80,086 6,870	\$882 80 220 70	836,839	\$1,486,769	\$683,914 56,672
	Main Track		2.780	25,281 88 4,218 66	75,284 6,784	11,629 66	32,330	1,439 85	4,001	662 10	1,841	74,985	34,171
	Totals		60.440		\$1,604,431		\$738,036		\$61,342		\$42,018	\$1,096,773	\$780,056
Totals	Main Line— Main Track 2d Main Track Sidings		188.565 5.445 60.430	25,281 88 26,281 88 16,864 50	\$15,469,561 137,680 1,170,213		\$6,359,569 60,815 507,418	797 88 1,439 35 959 56	\$880,711 7,837 66,622		\$862,062 3,462 28,889	\$16,350,272 145,497 1,236,885	\$6,721,631 64,277 536,307
	Colfax Branch— Main Track Sidings		157.150 34.590	68,204 70 12,640 94	9,982,618 486,365		3,988,762	3,598 36 719 67	24,843		227,067 9,986	10,4 <b>66</b> ,100 461,206	4,215,849 184,462
	Ofty Branch— Main Track Sidings	: :	56.650 14.220	54,777 40 12,640 94	8,108,140		1,230,018	3,118 56	176,668		70,027	3,279,808	1,300,045
	Main Track Sidings		70.500 8.800	87,923 82 8,427 22,	2,078,560		30,016	2,159 02	4,251		1,709	2,826,770 78,917	1,135,939 81,725
	Branch— Mala Track Sidings		47.840	87,922 88	1,814,228		729,311	2,156 02 470 78	108,286 3,220		41,522	1,917,510	770,841

1,544,316	336,450	880,400 8,884	737,708 8,877 66,989	1,886,906	\$20,188,254	2 61	27,972 8,892 2,231	\$88,786	\$66,869 17,060 2,072	\$76,001	\$2,565 369 1,156	080'18
3,494,067	41,507	1,068,849	1,980,248 22,045 172,065	4,678,888	\$49,601,187	130	88,00,22,901 126,901	\$115,086	\$192,776 57,888 7,024	\$257,633	\$6,751 972 8,042	\$10,765
88,186 6,289	18,128	20,491 673	39,737 451 8,519	101,741	\$1,087,178	# #	27,972 8,802 2,231	\$88,786	2,072	\$78,001	\$2,585 360 1,156	000'78
						\$1,616 87 80 384	1,616 97 26 98 38 98 38 98		\$1,415 <b>36</b> 424 61 288 07		\$546 96 278 47 91 16	
186,200	28,008 82,008	67,574 1,358	104,458 1,187 9,270	278,089 5,151	\$2,676,627	25 25 25 25	88,008 24,909 6,981	\$115,086	\$192,776 57,888 7,024	\$257,638	96,761 972 3,042	\$10,765
1,919 18	1,919 18	1,919 18	1,919 th	1,439 35		#4,797 82 1,430 85	4,797 82 1,439 85 960 56		44,797 88 1,439 86 86 66		\$1,439.35 719.67 289.89	
1,461,131	818,827 14,612	359,918	997,983 7,924 61,810	1,787,064	\$19,090,076							
8,305,808	84,75 180,271	1,011,275	1,884,790 20,868 102,815	4,426,867	\$47,014,500							
8,427 20	88,700 17	88,700 17 8,427 29	88,700 17 12,640 94 8,427 29	25,281 86 4,213 66								
88.0% 24.400	26.080 4.080	30.000 2.880	72	27.390	1,111.820		17.300 17.300 6.900	41.680	40.180 40.180 7.820	87.680	4.690 1.350 12.680	18.720
						REIGN 88.70			8.62		8.93	
Yakima Branch— Main Track Sidings			Grays Hor. B ch— Main Track 2d Main Track Sidings	Other B'ch Lines— Main Track Sidings	Totals	Main Line	<del>- : : :</del>	Totals	Main Line (Over N. P. Ry.) Main Track 2d Main Track Skidings	Totals	Branch Line (Over N. P. Ry.) Main Track 2d Main Track Stdings	Totals
						HQUIPMEN'			Cowlitz		Grays Harb'r	

Schedule "C"-Table I.-Steam Rallroads-Continued.

OREGON-WASHINGTON RAILROAD & NAVIGATION COMPANY—Concluded.

	CLASSIFICA-	Ass'd	·	R	REAL PROPERTY Right-of-Way and Tracks	OPERTY and Trac	82	PE	RSONAL pment and	PERSONAL PROPERTY Equipment and Rolling Stock	Y	TOTAL VALUATION Real and Personal Property	L VALUATION and Personal Property
COUNTIES	TTON OF TRACK	to netual value (Pet.)	Mileage	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equalized	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equalized	Actual	Equalized value
King	Main Line	46.00	15.310					24 767, 24 88 88 88 88	\$73,455 6,870	8,207 64 11 45 64 13 65	888,780 3,160	\$73,456 6,870	\$33,739 3,160
									\$80,682		\$87,090	\$80,632	987,090
Lewis		35.80	28.430 30.870 27.210	:::				1,439 88 1,439 86 960 56	\$188,402 44,483 26,110	\$1,717.62 515.29 343.52	\$48,882 15,907 9,347	\$136,402 44,433 26,110	\$48,832 15,907 9,347
			1.500					1,489 35	2,245	25.28 28.38	108	2,245	90 108
	Totals		80.270						\$200,478		\$74,908	\$200,478	\$74,998
Pierce	Main Line (Over C., M. & St. P. By.) Main Track	45.00	10.910			::		44,7797 88 986 56	\$52,844 8,992	\$2,150 02 431 80	\$23,566 1,796	\$62,344 3,962	\$23,556 1,796
	Main Track 2d Main Track Sidings		26.920 26.4920 5.080					4,797 88 1,489 86 969 56	38,315 86,315	2,159 02 647 71 481 80	08,121 17,242 8,921	129,167 38,315 8,713	68,121 17,242 8,921
	I Totala		77.000	77.000					*		\$104,635	8232, 521	\$104,635

82,28 88,08 84	<b>₹</b> ,278	14,500 2,764	60,675	14,143 25,478	3,369	\$406,442		\$20,188,254 406,442	96,66
		-	**	•					\$20,589,666
2,490 2,490 115	\$10,761	\$123,256 36,272 6,900	\$166,437	\$726,980 204,\$74 66,661	8,906 972 3,330	\$1,063,313		\$49,661,187 1,068,818	\$50,774,500
88,288 989 54	<b>\$4</b> ,278	949,302 14,509 2,784	\$66,575	\$301,824 74,143 25,478	3,869 0,250 0,250	\$406,442		\$1,087,178 406,442	\$1,488,620
41,904 73 571 43 360 85		\$1,919.13 575.74 388 88				\$1,088,313			83,759,940 11,498,690
2,490 115	\$10,761	\$123,256 36,272 6,909	\$166,437	\$738,980 204,874 . 66,661	8,996 972 8,890			1,088,627	
\$4,797.88 1,439.85 96.06		\$4,797 82 1,439 85 969 56		24,797 88 1,439 86 860 66	1,430 35 719 67 239 89				\$19,006,076
								920,096,098	\$19,006,076
								\$47,014,560	\$47,014,560
700 730 120				166.530 141.990 69.470	6.250 1.850 3.880				
1.700	8.550	25.690 25.200 7.200	68.090			399.470		1,111.820	1,511.290
• :::		9.0						aviga-	
Main Line (Over U. M. & Bt. P. Ry.) Main Track 2d Main Track Sidings	Totals	Main Line (Over N. P. Ry.) Main Track 2d Main Track	Totals	성	Branch Line—Main Track 2d Main Track Sidings	Totals	RECAPITULATION	Pregon-Washington Raliroad & Naviga- tion Company— Track and equipment.  Equipment (only) over foreign lines.	Totals
Spokane		Thurston		Totals			RE	Oregon-Washingto tion Company— Track and equ Equipment (or	Tot

Schedule "C"-Table I.-Steam Railroads-Continued.

PENINSULAR RAILWAY.

	STRI 100 V	Ass'd		Rig	REAL PROPERTY Right-of-Way and Tracks	OPERTY and Track		PE	RSONAL pment and	PERSONAL PROPERTY Equipment and Rolling Stock	Y. tock	TOTAL VALUATION Real and Personal	LUATION
COUNTIES	TION OF TRACK	to to actual value (Pet.)	Mileage	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Actual	Equalized value
Мавоп	Main Line 87.00 Main Track Sidings	37.00		15.628 \$10,000 00 11.240 2,000 00		\$156,230 \$8,700 00 22,480 740 00	\$57,805 8,318	\$5,148 01 1,029 00	\$80,427	\$1,901.76 380.96	\$20,758	\$236,667 34,068	\$87,568 12,600
	Totals			26.888	\$178,710	178,710	\$66,12		\$92,000		\$84,040	\$270,710	\$100,163

PUGET SOUND & BAKER RIVER RAILWAY.

Mileago Rate per mile,   Actual   Equal   Equal   Rate per mile,   Actual   Equal   Equal   Rate per mile,   Actual   Equal   Equal   Rate per mile,   Actual   Equal   Equal   Equal   Actual   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equal   Equ		TOTAL ACCUMANCE	Ass'd		Rig	REAL PROPERTY Right-of-Way and Tracks	OPERTY and Tracl	83	Fqui	RSONAL pment and	PERSONAL PROPERTY Equipment and Rolling Stock	Y. tock	TOTAL VARABLE AND	TOTAL VALUATION Real and Personal	
Main Track 27.30 21.376 \$7,900 01 \$108,871 \$2,156 70 \$46,102 \$77.8 18 \$15,998 \$204.25 \$4,398 \$184,894 \$18,181 \$4 \$15,998 \$20,425 \$4,398 \$184,894 \$18,181 \$4 \$18,181 \$4 \$18,181 \$4 \$18,181 \$4 \$18,181 \$4 \$18,181 \$4 \$18,181 \$4 \$18,181 \$4 \$18,181 \$4 \$18,181 \$4 \$18,181 \$4 \$18,181 \$4 \$18,181 \$4 \$18,181 \$4 \$18,181 \$4 \$18,181 \$4 \$18,181 \$4 \$4 \$18,181 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4	COUNTIES	TRACK	ratio to actual value (Pet.)	Mileago	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equalized value	Rate per mile, actual value	Actual value	Equal- ized rate per mile	Equal- ized value	Actual value	Equalized value	
\$25.426/ \$170,829/ · · · · · · \$16,150 · · · · · · \$16,150 · · · · · · · \$18,160 · · · · · · · · · \$18,400	Skagit	Main Line Main Track Sidings	27.30	1.040	\$7,900 01 1,680 00	\$108,871	\$2,156 70 481 34	\$46,102	\$748 18 149 64		\$20 <b>4</b> 25				
100,000		Totals		20,52	Ì	1		\$46,55H	1	\$16,150		84,400			
		1	i	i	<u></u>	./800 (UL)			ĺ		_	1			_

RAILWAY.
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	יייייייייייייייייייייייייייייייייייייי	Ē	7007Y	<u>.</u>					·	PROP 1	PROPERTY PROPERTY	Besi	Beal and Personal Property
	!	1			, i i	į		~	PERSONANG	20/-	, Frout	1/1	Formalized
	_	P.88Y		R	KEAL, PROPERTY Right-of-Way and Tracks	PERTY and Track		E	andpo			Actual /	rafile
COUNTIES	TION OF TRACK	to actual value (Pet.)	Mileage	Rate per infle, actual value	Actual	Equalized rate	Equal- ized value	Rate per mile, actual value	Actual	per mile	Value	Market	\ \ \
Lewis	Main Line Main Track Sidings	85.88	81.810	\$1,000 00 3,000 00	\$400,650 14,217	\$6,870 00 1,074 00	\$168,135 5,080	\$964 45 190 89	906 906	<b>1834</b> 1 69	\$10,668	\$439,584 15,123	\$178,833 5,414
	Totals		36.049		\$483,807		2 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °		\$30,780		\$11,022	\$514,656	\$184,947
Pacific	Main Line Main Track Sidings	37.50	23.651 \$.724	\$15,000 00 3,000 00	\$354,765 11,172	\$5,625 00 1,125 00	\$133,087 4,189	\$954 45 190 89	\$22,678 711	\$867 92 71 56	88, 267,	\$877,888 11,883	\$141,502 4,456
	Totals		27.875		\$385,987		\$137,235		. 384		\$8,732	122,088	\$115,968
Thurston	Main Line Main Track Sidings	90.04	10.960	8,000 00	\$164,885 5,775	1,200 00	2,310	190 89	\$10,460	87 1888 76 36	<b>*</b> 147	\$174,845 6,142	\$69,988 2,457
	Totals		12.894		\$170,160		₩88,064		\$10,827		1881	\$180,987	\$72,305
Totals	Main Line— Main Track Sidings		10.388	\$15,000 00 8,000 00	\$008,800 31,164		\$386,880 11,580	190 SE	1,983		882 738	\$1,061,717 33,147	\$880,771 12,327
	Totals		76.308		196,910,13		<b>\$378,478</b>		\$64,900		<b>623</b> , 620	198,180,18	\$402,008
	•	,	•						-				

Schedule "C"-Table I.-Steam Railroads-Continued.

PULLMAN COMPANY (Equipment only).

	A CITATION IS	Ass'd		RI	REAL PROPERTY Right-of-Way and Tracks	OPERTY and and Track	23	Fgui	PERSONAL PROPERTY Equipment and Bolling Stock	PERSONAL PROPERTY quipment and Bolling Sto	T. Soek	Real and Personal	LUATION
SHULKION	THON OF	1	Milanon	Parta ner 1				Pate ner				Property	erty
	TRACK	actual value (Pet.)	k K	ralle, actual value	Actual	Equal- ized rate per mile	Equal- ized value	mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Actual	Equalized
•		90.04	0.035030	***********	************	***************************************	*********	***************************************	80,536		\$8,814	80,586	18,88
Chelan		41.00	· S. C. C. S. S.	*********		**********	**********	**********	3,906	**********	1,601	3,906	1,603
Clarke		. S. 20	10000000	**********		********	CARACTERS.	*313444618+	8,603	*********	2,899	8,608	68,6
		_	*******		***********			*********	1,695		619	1,695	618
		_		***********	***********	********	**********	**********	21,686		6,388	21,636	6,38
Douglas		_			***********	*********	**********	**********	216	********	198	316	30
Grant		3 8						**********	2 452		1 887	9 450	100
Grays Harb'r.									5.983		9,995	5,983	0.00
n.g.	King		*********	***********	***************************************	***********	***********	**********	16,147		7,428	16,147	7,49
wis			********	***********	**********	**********	Section Committee		16,200	***********	5,872	16,290	5,835
ncoln			2000000	***********	· · · · · · · · · · · · · · · · · · ·	**********	Secretaries.	Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Sectin Section Section Section Section Section Section Section Section	5,307	Section 1	2,225	5,307	0 997
nd Oreille.			*******	**********	***********	*********	***********		993		678	928	378
erce				Section State			Separate and a	Assault See	28,540	*********	10,508	23,540	10,58
ohomish	Snohomish	8:8	********	**********	***********	**********	ALTERNATION.	continue	3,233	Constraint,	1,345	3,233	1,840
Sporane		2.8	030000	coccessor	00000000	*********	*********	*TAXABLE	13,402	VALUE OF SERVICE	5,821	13,402	5,82
Thurston		8.8	SAMON	A SAN SAN SANA	Section 1			***************************************	18,308	**********	7,321	18,308	7,82
Walla Walla.		홛	*******	STREET, STREET	Secretaries.	Action deline	**********	VICTORIAN VICTORIA	24,165	en contract	10,149	24,165	10,148
Whitman		- <del>0</del> 0.20	*******	*******		· · · · · · · · · · · · · · · · · · ·	**********	**********	10,080	***********	4,068	10,063	4,050
_	Totale								ATSD OVE		874 771	S180.060	\$74.77

SEATTLE-188AQUAH ELECTRIC RAILWAY.

	Pos	Rate per	REAL PROPERTY Right-of-Way and Tracks	And Track		PR Equi	PERSONAL PROPERTY  Equipment and Rolling Stock  per   Actual   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Proper   Pro	Rolling St	ock Fores	TOTAL VALUATION Real and Personal Property	L VALUATION and Personal Property
value actual value (Pet.)	1	AST	8	ized rate	fæd value	actual value	value	ized rate	raine value	Actual	Equalized value
6.00 \$5,500 00 \$	\$5,500 00	•	80,250	00 083'3\$ 023'09		\$13,915 \$1,818 18	\$E0,000	\$886 36	<b>%,000</b>	\$40,250	\$18,515
SEATTLE, PORT ANGELES & WESTERN RAILWAY.	ERN RAILW		<b>∀</b>							İ	
REAI REAI	REAI Bight-of-	REAI cht-of-	Way	REAL PROPERTY Right-of-Way and Tracks	3	PE	PERSONAL PROPERTY Equipment and Rolling Stock	PROPERT Rolling St	Y ock	TOTAL VALUATION Real and Personal	LUATION
actual Mileage Rate per Actual value (Pet.)	Rate per mile, actual value	Actu valu	78 9	Equal- ized rate per mile	Equal- ized value	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Actual value	Equalized value
50.00 58.092 \$12,500 00 \$998	\$12,500 00 2,500 00		16,977	\$6,250 00 1,250 00	8,486 8,486	94,856 00 871 00	\$281,086 5,915	<b>177</b> 50 486 80	\$115,543 2,967	208,22 22,892	\$47,181 11,445
80.65			292,090		\$540,126	:	\$287,000	287,000	\$018,500	\$017,252	\$458,626
39.00 9.228 \$12,500 00 \$11.	\$12,500 00 2,500 00	į	\$115,350 2,223	94,875 00 975 00	984,986					\$115,850 2,223	984,148
10.117		暴	\$117,678		\$45,868					\$117,678	\$45,868
Grand Totals 69.970		\$	97,886	***************************************	\$886,979	886,979	000,782	000,123	\$118,500	\$1,084,825	\$504,479

Schedule "C"-Table I.-Steam Railroads-Continued.

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	A STET TO BE TO	Ass'd		æ	REAL PROPERTY Right-of-Way and Tracks	PERTY and Track		P.E.	RESONAL present and	PERSONAL PROPERTY Equipment and Rolling Stock	tock tock	TOTAL VAR	TOTAL VALUATION Real and Personal
COUNTIES	TION OF TRAOK	to sectual value (Pet.)	Mileage	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Rate per mile, actual value	Actual value	Equal- ized rate per mile	Equalized value	Actual value	Equalized value
Ferry	Main Line 45.60 Main Track Sidings	45.50	36.400	<b>88</b> ,777,28	\$187,492	\$1,718 65 343 73	\$62,559 1,430	\$841 10 68 22	\$12,416	\$155 20 81 04	\$5,649 129	\$149,906 3,427	\$68,206 1,559
	Totals		40.500		\$140,685		\$63,969		\$12,700		\$6,778	\$153,335	\$69,767
SPOKANE	INTERNATIONAL RAILWAY	VAL R	AILW	٢.									
	A GETTELOA	Ass'd		Ri	REAL PROPERTY Right-of-Way and Tracks	PERTY and Track	2	Equip.	RSONAL pment and	PERSONAL PROPERTY Equipment and Rolling Stock	'Y tock	TOTAL VARABLE BOOK	TOTAL VALUATION Real and Personal
OOUNTIE8	TION OF TRACK	sctual value (Pet.)	Mileago	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Actual value	Equalized value
Spokane	Main Line 39.70 Main Track	39.70	19.850	\$25,000 00	\$496,250	\$9,925 00 1,985 00	\$197,011 16,575	92,882 99 466 60	\$46,810 8,806	\$026 186 24	\$18,885 1,548	\$542,560 43,544	\$215,396 18,128
	Totals		28.200		9588,000	Secretaries .	1213,586		\$60,208		\$19,983	\$686,104	\$283,519
EQUIPMEN	EQUIPMENT (ONLY) OVER FOREIGN	REIGN	LINES									8	<b>8</b> 718
Spokane	Spokane  OW. R. & N.—   Main Track		.789	***************************************		erecornie	11	98 388 38	- 1	0Z 9Z0	1		\$284,281
	Grand Totals		28.900		\$508,000	000,8898	1813, E.	P.13, 580	#05,000 ·				

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PORTLAN
SPOKANE

		D,997		Z.	REAL PROPERTY Bight-of-Way and Tracks	PERTY and Traci		PE Equi	REGUAL 1 pment and	PERSONAL PROPERTY Equipment and Rolling Stock		TOTAL VALUATION Real and Personal	LUATION	
COUNTIES	TRAOK OF	actual value	Mileage	Rate per mile. actual value	Actual	Equal- ized rate per mile	Equal- fzed value	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Actual value	Equalized value	
Adams	Main Line Main Track Sidings		42.133 11.196	\$96.911 21 19.182 24	\$4,040,981 214,764	7,672 90	\$1,616,872 85,900	44,088 408 408 408	\$1000,6114 9,000	# ,609 36 78 128	3,606	<b>\$4.210,445</b>	\$1,684,178 89,510	
	Totals		88.888		\$4,255,695		\$1,702,27k		\$178,628		\$71,410	\$4,484,218	\$4,773,688	
Benton	Main Line Main Track Sidings	43.00	04.598 12.281	19,182 24	#6,196,198 \$ 234,618	\$41,241 88 8,246 36	100,880	<b>38</b> <b>38</b> <b>38</b>	888, <b>888</b> 9,842	25. 12 20. 048 12. 048	4,232	<b>26</b> ,455,076	\$2,775,088 105,118	
	Totals		78.86		<b>119.429.8</b> 11		\$18,764,915		\$20,725		\$115,98g	\$6,000,586	108'098'38	
Olarke	Main Line Main Track 2d Main Track Ridings	8 5	# .410 18.808	996.911 21 28,773 86 19,182 24	11,707 11,707 860,779	9,882 08 9,896 62 6,464 41	\$726,697 3,974 121,588	7,000 1,207 08 804 08	\$500,488 495 15,134	\$1,855 80 406 77 271 18	<b>\$50,484</b> 167 5,100	<b>\$2,246,880</b> 12,292 375,913	<b>\$767</b> ,181 4,143 126,688	<u> </u>
	Totals		41.701		\$2,528,948		\$862,230		\$106,067		1926,751	\$2,685,085	\$888,007	
Pranklin	Main Line Main Track Sidings	48.00	11.999	905,911 21 19,182 24	\$6.577,237 280,168	8,248 86 8,246 86	\$2,806,212 98,972	25, 28 20, 28 20, 48	9,065	\$1,780 06 846 01	\$100,008 4,152	230,823	\$2,408,815 108,124	
	Totals		70.146		\$6,807,405		\$2,497,184		\$248,616		\$104,755	130,130,48	98,109,28	
Klickitat	Main Line Main Track Sidings	8 ::	92.238	906.911 21 19,182 24	<b>392,875</b>	28,79, 279,7	\$3,588,063 129,150	20, 22 20, 20 30, 40	18,544	80°,138 878 88	\$148,444 5,418	89,217,768 836,419	<b>88,687,</b> 107 134,568	
	Main Track		8.92 8.87	28,773 9,00 21	1,214,561	11,500 84 8,886 45	12,726	1,207 02,	30,961 1,886	35 25 22	88,08 584	1,265,532	506,218 18,260	
	Totals		l	154.800	\$10,415,988		FK, 166, 871		9436,040	096,864	\$174,776	\$174,776 \$10,852,888	\$4,841,147	_

Schedule "C"—Table I.—Steam Railroade—Continued.

SPOKANE, PORTLAND & SEATTLE RAILWAY-Concluded.

	A CONTRACTOR	Ass'd		R	REAL PROPERTY Right-of-Way and Tracks	OPERTY and Track	2	PE	PERSONAL PROPERTY Equipment and Rolling Stock	PROPERT Rolling St	T ock	TOTAL VALUATION Real and Personal	C VALUATION and Personal
OOUNTIES	TION OF TRAOK	to to value (Pet.)	Mileage	Rate per mile. actual value	Actual value	Equalized rate	Equal- ized value	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Actual	Equalized value
Líncoln	Main Line	42.50	2.107	896.911 21	\$206,085	802,086 840,762 26	986,384	07 830 74		\$6,477 \$11,709 SE	\$6,60	\$210,58g	\$69,486
Skamania	Main Line Main Track	00.04	77.736	19,182 24	48,891,789 148,894	\$88,364 48 7,672 90	\$1,556,716 59,356	20, 20, 40 80, 68	\$108,288 6,225	81,609 36 321 87	\$65,308 2,490	\$4,086,047 154,619	81,022,019 61,848
	Totals		48.818		\$4,040,188		\$1,616,074		\$169,488		\$67,798	\$4,209,668	\$1,688,867
Spokane	Main Line 89.70 Main Track Sidings	22.38	84.581 6.896	\$96.911 21 19.182 24		182,281 7,615 85	\$1,316,782 52,515	95 108 804 68	\$130,188 5,549	81, 507 29 819 46	2,208	\$8,456,888 187,880	81,871,968 54,718
	Totals		41.477		\$8.449,988	#8,448,986	\$1,369,247		\$144,682		\$67,489	\$8,508,668	\$1,426,686
Whitman	Main Line	40.20	8.172 7.569	19,182 24	\$788,786 144,423	7,711 26	\$315,082 58,068	25.088 30.48 80.68	\$82,879 6,068	EL, 617 41 828 48	2,435	\$816,066 150,481	\$828,200 60,498
	Totals		15.701		8058.200		\$873,140		196,88\$		\$15,652	\$967,146	\$888,792
Totals	Main Line— Main Track 2d Main Track Sidings	jg.	366.068 .410 98.227	28,773 36 19,182 24	\$35,010,766 (\$14,218,238 11,707 8,976 1,788,302		\$14,218,238 3,976 706,428	1,207 02 1,207 02 804 68	41,468,673 466 75,016		\$606,446 167 29,684	12, 292 1, 868, 318	\$14,814,739 4,148 736,062
	Main Track		8.817	28,773 36 9,561 12	1,214,681		12,736	1,207 02	1,836		20,880	1,265,582	506,212
	Totals		804.190	604.190	\$38,067,250		\$15,427,255		\$1,596,470		\$647,161	\$50,668,720	\$16,074,416

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	ACTRIBOATO	p.ssv		BA	REAL PROPERTY Right-of-Way and Tracks	PERTY and Track	15	PE	PERSONAL PROPERTY Equipment and Rolling Stock	PROPERT Rolling St		TOTAL VALUATION Real and Personal	LUATION
OOUNTI E8	TRAOK OF	to to value (Pet.)	Mileage	Rate per mile, actual	Actual	Equal- ized rate per mile	Equal- ized value	Rate per mile, actual value	Aetual	Equal- ized rate per mile	Equal- ized value	Actual Equ	Equalized value
Lewis	Main Line Main Track Sidings	98.58	17.554	\$26,043 98	\$457,176	89,828 73 1,864 75	\$163,609	\$8,308.77	\$145,852	\$2,974 54 894 91	\$52,215	\$605,027	\$215,884 16,970
	Totals	1	24.458		\$498,126		\$176,539	1	\$157,322	- William	\$56,321	\$650,448	\$232,800
Pierce	Main Line Main Track Sidings	45.00	50.064	6,208 79	\$1,308,803 \$11,719	2,343 90	\$586,730	1,661 77	\$415,970	\$8,738 96	\$187,187 17,647	\$1,719,838	\$773,926
	Branch Lines— Main Track Sidings	*****	4.958	16,928 55 2,604 39	355,381	7,617 86	159,922	5,400 70	113,377	2,430 31	51,019	468,758	7,057
	Totals		99.60	State State of	\$1,795,066		\$807,781	www.	\$572,678	**********	\$257,705	\$2,367,744	\$1,065,486
Totals	Main Line— Main Track Sidings		67.618 30.501	***************************************	\$1,761,068	***************************************	\$750,408		\$561,822	11	\$239,400 21,753	\$2,322,800	808,810 89,818
	Main Track	0.000	20,998	***********	356,381		159,992		4,115		51,019	468,758	7,657
	Totals	.77.77.7	124.065		\$2,288,192		\$981,320	- Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Cont	\$730,000	*********	\$314,026	\$3,018,192	\$1,298,346

Schedule "C"-Table I.-Steam Railroads-Continued.

THURSTON COUNTY RAILWAY.

	A CTE TROOP IS	Ass'd		R	REAL PROPERTY Right-of-Way and Tracks	OPERTY and Track	83	PE Equi	RSONAL pment and	PEESONAL PROPERTY Equipment and Rolling Stock	rock tock	TOTAL VALUATION Beal and Personal	LUATION
COUNTIES	TION OF TRACK	to to actual value (Pet.)	Mileage	Rate per mile, actual value	Actual value	Equal- ized rate per mile	Equalized	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equalized	Actual	Equalized value
Thurston	Main Line 40.00 Main Track Stdings	60.04	4.885	\$7,500 00 1,500 00	-	\$36,186 9,810 9,810	\$14,475 \$4,875 2 8,924 975 0	84,875 % 875 %	6,517	\$1,950 10	\$9,400	\$50,711 16,187	\$28,884 6,475
	Totals			11.865	-	986,386	\$18,399	\$18,899	008'628	006'63	\$11,980	\$75,808	\$80,859

WASHINGTON ELECTRIC RAILWAY.

	A STATES A TO	Ass'd		R	REAL PROPERTY Right-of-Way and Tracks	OPERTY and Trac	5	Foul	RSONAL oment and	PERSONAL PROPERTY quipment and Rolling Sto	Y. ock	TOTAL VALUATION Real and Personal Property	ALUATTON Personal
COUNTIES	TTON OF TRAOK	to setual value (Pet.)	Mileage	to Mileage Eate per actual value value value	Actual	Actual Equal- value ized rate	Equal- ized	Rate per mile, actual	Aetual	Equal- ized rate per mile	Equal- ized value	Actual	Equalized
Lewis	Main Line 85.80	8.8	1										

WASHINGTON, IDA	ON, IDAHO & I	MONT	RANA	THO & MONTANA RAILWAY	نيز				\	080	PROPER	11	NOTATITATION
		' . ' . '	1)	/i	(i	)   			PERSON.	PERSONAL ROLLING Stock	W Stock	<u> </u>	Real and Personal Property
	ACIE 100 A TO	Ass'd		Z.	REAL PROPERTY Right-of-Way and Tracks	DPERTY and Trach	2	2	andin	_ 	/ Egust	_	/ Fauglized
COUNTIES	TION OF TRACK	ratio to actual value (Pet.)	Mileage	Rate per mile, actual value	Actual value	Fqual- ized rate per mile	Equalized	Rate per mile, actual value	Actual value	Equalized Fate		Actual	ratie
Whitman	Main Line Main Track Sidings	96.30	8.880 2.800	4,473 88	\$74,480 10,280	\$6,992.49 1,798.50	\$29,945 4,137	\$6,800 16 1,872 08	\$22,844 3,156	\$22,844 \$2,757 78 8,156 561 56	\$9,188 1,269	\$97,334 13,446	\$39,128 5,406
	Totals		5.630		994,780		289,1082		000'92\$		\$10,468	\$110,780	¥44,584
WASHINGTON W	GTON WESTERN RAILWAY.	Z R A	LWAY.						:	:	1	,	
	OTATION TO	Ass'd		Ž.	REAL PROPERTY Right-of-Way and Tracks	PERTY and Track	5	PE	RSONAL pment and	PERSONAL PROPERTY Equipment and Rolling Stock	Y.	TOTAL VALUATION Real and Personal	LUATION
COUNTIES	TION OF TRACK	actual value (Pet.)	Mileago	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Actual	Equalized
Snohomish	Main Line Main Track Sidings	8	911.11 387.	1,800 00	\$88,392 1,178	88,120 00 924 00	<b>\$84,69</b>	\$461 18 82 28	\$6,128 27	88 88 88	\$2,133	\$88,520	\$36,824 518
	Totals		11.901		\$84,865	994,865	\$85,179	179	\$6,200	100,200	<b>\$2</b> ,168	\$80,765	\$57,542

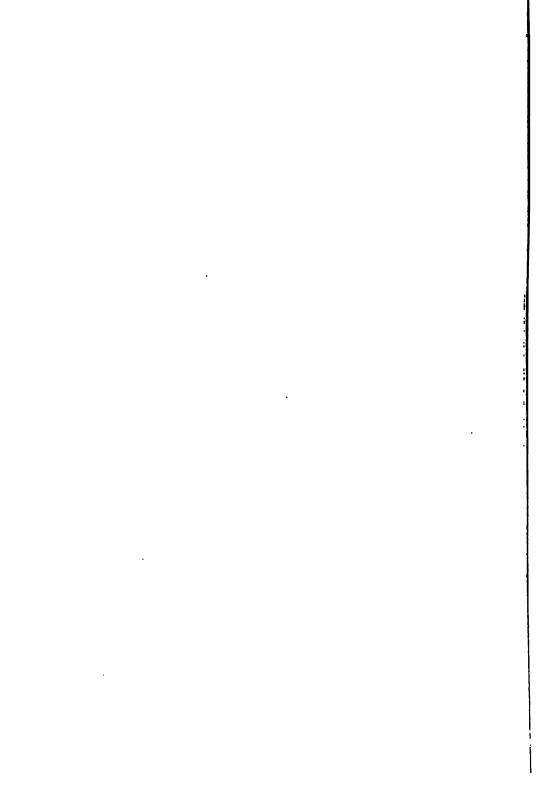
Schedule "C"-Table I.-Steam Railroads-Concluded.

WATERVILLE RAILWAY.

	A COMITON TO	Ass'd		T.	REAL PROPERTY Right-of-Way and Tracks	OPERITY and Trac		Edu	PERSONAL PROPERTY Equipment and Rolling Stock	PROPER!	TX tock	TOTAL VALUATION  Beal and Personal	ALUATION Personal
COUNTIES	TION OF	3	Mileage	Rate per			t	Rate per				TIO	fa pa
		actual value (Pct.)		mfle, actual value	Actual	Equal- ized rate per mile	Equal- ized value	mfle, actual value	Actual	Equal- fred rate fred per mile value	Equal- ized value	Actual value	Equalized value
Douglas	Main Line 40.00 Main Track Sidings	<b>4</b> 0.08	5.002	1,380 00		2,000 t8,100 00 2,000 688 00	\$16,091 1,074		pt6,007 1,074			780,28 78,084	\$16,091 1,074
	Totals		6.791	9.791	\$42,911	M2,911	\$17,166		17,166			\$42,911	\$17,166

WENATCHEE VALLEY & NORTHERN RAILWAY.

	100mm	P.ssy		Rij	REAL PROPERTY Right-of-Way and Tracks	OPERTY and Track	9	PE	RSONAL pinent and	PERSONAL PROPERTY Equipment and Rolling Stock		Real and Personal	Personal
COUNTIES	TION OF TRACK	to to value (Pet.)	Mileago	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Rate per mile, actual value	Actual	Equal- ized rate per mile	Equal- ized value	Actual	Equalized value
Chelan	Chelan. Main Line 41.00 Main Track Sidnes	8:13	17.000	\$5,000 00	1	885,000 RE,050 00 5,000 410 00	\$84,850	84,850 \$2,572 22 2,050 514 44	2,572	2,572 \$1,054 61 2,572	\$17,928	\$28,728 7,572	872,778 8,106
	Totals		22.000		000'00\$	000'00	006'988	006'98	946,300		806'80	\$136,300	\$60,888



SCHEDULE "C"-Table II.-INTERURBAN LINES (Electric).

CYCH AC ENYN	Administra	Ass'd ratio	NOTITE A STATEMENT TO	AS REAL PROPERTY	EAL	A9 PERSONAL PROPERTY	SONAL	TOTAL REAL AND PERSONAL PROPERTY	REAL SSONAL SRTY
		actual value (Pet.)	OF TRAOK	Actual	Equalized value	Actual value	Equalized value	Actual value.	Equalized value
North Coast Power Company	Olarke Lewis	38.7	Street Rallway Lines Interurban Lines Street Rallway Lines Interurban Lines	\$22,080 18,090	4,001	\$0.59,180 15,460 148,720 14,640	558, 644 5, 210 53, 242 5, 241	\$159,180 \$7,540 148,730 \$7,000	58,644 12,651 58,242 9,902
			Totals	\$86,100	<b>£</b> 02,108	000'8888	\$117,887	\$873,100	\$129,430
Pacific Northwest Traction Company	King Snobomish Skagit	41.6 27.3 86.0	Interurban Lines Interurban Lines Interurban Lines Interurban Lines	719, 488 719, 488 774, 429	289, 307 299, 307 211, 419 100, 566	256,882 150,287 150,722 68,600	25,735 26,935 28,935 28,935	9890,144 989,775 984,965 847,880	\$179,467 849,846 268,850 125,256
			Totals	<b>\$2,107,500</b>	\$765,043	\$485,000	\$162,875	<b>\$</b> 2,542,500	\$917,418
Puget Sound Electric Raliway	King	46.0 45.0	Interu	\$1,814,897 875,606	884, 628 804,021	100,906	\$96,188 45,408	\$2,023,491 976,500	\$080,806 439,429
			Totals	000'089'78	\$1,228,644	\$810,000	\$141,501	88,000,000	\$1,870,285
Spokane & Inland Empire Ballway Co	Spokane	<b>86.7</b>	Interurban Lines Street Railway Lines Interurban Lines	\$8,271,798 2,967,167	\$1,298,904 1,192,801	\$266,506 1,736,800	\$106,808 669,510	1,736,800	\$1,404,706 689,510
	_		Totals	<u>.                                    </u>	\$6,288,965 \$2,491,705 \$2,261,085	\$2,961,085	4	M 100 000	1,580, 108

Walla Walla Valky Rallway Company Walla Walla Walla Walla Walla Walla Walla Walla Walla Walla Walla Walla Walla Walla Walla Walla Walla Walla Walla Idnes	Totals \$140,100 \$66,842 \$231,800 \$97,888 \$872,000 \$156,240	80.7 Interurban Lines \$865,000 \$851,245 \$119,107 \$47,285 \$1,004,107 \$888,690 \$6.545,888 1,010,720 2,545,888 1,010,720	Totals \$885,000 \$851,245 \$2,665,000 \$1,069,005 \$5,550,000 \$1,400,350	46.0 Interurban Lines	Totals. Totals. \$121,480 \$65,861 \$231,000 \$124,000 \$413,000 \$129,000	Interurban Lines (412, 218, 145 pt, 968, 562 qt, 1899, 432 qt), 279 qt), 2747, 927 qt, 1878, 940 bt) Street Railway Lines (1999, 447 pt) 1,999, 447 pt)	Grand Totals   \$12,218,145   \$4,968,662   \$5,568,445   \$2,569,725   \$18,750,600   \$7,568,287
Walla Wa		Spokane		Yakima			
Valla Walla Valley Rallway Company		Washington Water Power Company Spokane		Yakima Valley Transportation Company. Yakima		Totals	_

## SCHEDULE "C"-Table III.-STREET RAILWAYS.

NAME OF ROAD	COUNTY	Assessed ratio to actual	OPERA! PROPE (Assessed as proper	RTY personal
		value (Pet.)	Actual value	Equalised value
Everett Railway, Light and Water Co	Snohomish	41.6	\$1,275,000	\$580,400
Grays Harbor Railway and Light Co	Grays Harbor	38.0	1,200,000	456,000
Lewiston-Clarkston Transportation Co	Asotin	46.0	18,700	6,302
Loyal Rafiway	King	46.0	18,500	6,210
Olympia Light and Power Company	Thurston	40.0	330,000	182,000
Pacific Traction Company	Pierce	45.0	245,500	110,475
Puget Sound Traction, Light and	King	40.0	\$16,723,200	\$7,002,072
Power Company.	Whateom	36.0	1,760,000	633,600
	Snohomish	41.6	198,400	82,584
	Totals		\$18,681,600	\$8,409,800
6-44- D.A 16-44- D.B.				
Seattle, Renton and Southern Railway		46.0	\$1,200,000	\$652,000
Tacoma Railway and Power Company	Pierce	45.0	8,600,000	1,620,000
Western Washington Power Company		46.0	44,000	20,24
Willapa Electric Company		87.5	108,700	40,76
Totals	[•••••••	• • • • • • • •	<b>\$26,712,000</b>	\$11,888,19

# SCHEDULE "C"—Table IV.—RECAPITULATION OF STEAM RAILROADS—VALUATIONS BY COUNTIES.

NAME OF ROADS BY COUNTIES	Assessed ratio to actual value (Pet.)	Actual value	Equalized value
1. ADAMS  Chicago, Milwaukee & St. Paul Railway.  Northern Pacific Railway.  Oregon-Washington Railroad & Navigation Co. Pullman Company (Equipment only).  Spokane, Portland & Seattle Railway.		\$7,888,184 6,604,482 4,062,873 9,586 4,434,218	\$2,985,254 2,641,778 1,625,149 8,814 1,778,687
Totals		\$22,449,198	\$8,979,677
2. ASOTIN	46.0		
\$ BENTON Chicago, Milwaukee & St. Paul Railway. Northern Pacific Railway & Navigation Co. Spokane, Portland & Seattle Railway. Totals.		\$497,978 4,546,122 1,808,561 6,699,536	\$214,181 1,964,882 777,690 2,890,800
		· · · · · · · · · · · · · · · · · · ·	44,441,441
4. CHELAN Great Northern Railway Pullman Company (Equipment only) Wenatchee Valley & Northern Railway	41.0	\$8,667,562 3,906 186,300	\$8,558,700 1,601 55,888
Totals		\$8,807,768	\$8,611,184
5. CLALLAM  Little River Railroad & Logging Company  Milwaukee Terminals Railway.  Seattle, Port Angeles & Western Railway	50.0	\$56,000 20,107 917,252	\$28,000 10,064 458,626
Totals		\$998,859	\$496,680
6. CLARKE  Great Northern Railway  Northern Pacific Railway  Oregon-Washington Railroad & Navigation Co. Pullman Company (Equipment only)  Spokane, Portland & Seattle Railway		\$204,156 3,181,885 123,996 8,603 2,685,085	\$68,801 1,072,295 41,786 2,899 888,007
Totals		\$6,153,672	\$2,078,788
7. COLUMBIA  Northern Pacific Railway  Oregon-Washington Railroad & Navigation Co. Pullman Company (Equipment only)	86.5	\$304,907 3,516,021 1,695	\$111,291 1,288,348 619
Totals		\$3,822,623	\$1,395,258
8. COWLITZ Great Northern Railway Northern Pacific Bailway Oregon-Washington Railroad & Navigation Co. Fullman Company (Equipment only)	l	\$459,585 5,284,065 267,638 21,686	\$135,578 1,558,796 76,002 6,383
Totals		\$6,022,909	\$1,776,759

### Schedule "C"-Table IV.--Continued.

NAME OF ROADS BY COUNTIES  NAME OF ROADS BY COUNTIES  actual value (Pct.)		Equalized value
9. DOUGLAS 40.0 Great Northern Railway. Pullman Company (Equipment only). Waterville Railway	\$3,353,134 917 42,911	\$1,341,254 367 17,164
Totals	\$3,396,962	\$1,258,785
10. FERRY	\$2,082,359 153,386	<b>\$91</b> 7,473 <b>69</b> ,767
Totals	\$2,235,694	\$1,017,240
11. FRANKLIN Northern Pacific Railway Oregon-Washington Railroad & Navigation Co. Pullman Company (Equipment only) Spokane, Portland & Seattle Railway	\$6,429,906 1,422,949 1,994 6,051,021	\$2,764,860 611,865 857 2,601,980
Totals.	\$18,905,870	\$5,979,524
12. GARFIELD S4.8 Oregon-Washington Railroad & Navigation Co.	\$690,450	\$205,477
Totals	\$590,450	\$205,477
13. GRANT	\$3,907,964 5,960,456 2,661,921 3,458	\$1,504,146 2,350,430 1,047,500 1,364
Totals	\$12,413,794	\$4,908,449
14. GRAYS HARBOR Black Hills & Northwestern Rallway Chicago, Milwaukee & St. Paul Rallway. Northern Pacific Rallway Oregon-Washington Rallroad & Navigation Co. Pullman Company (Equipment only).	\$29,652 108,528 3,609,640 2,019,666 5,983	\$11,268 39,341 1,371,668 767,473 2,225
Totals	\$5,768,419	\$2,192,000
15. ISLAND		
16. JEFFERSON S9.0  Northern Pacific Railway Seattle, Port Angeles & Western Railway Milwaukee Terminals Railway	\$782,890 117,573 33,524	\$306,304 45,863 13,074
Totals	\$983,927	\$364,231
17. KING Oanadian Pacific Railway (Equipment only). Chicago, Milwaukee & St. Paul Railway. Oolumbia & Puget Sound Railway. Great Northern Railway. Milwaukee Terminals Railway. Northern Pacific Railway. Oregon-Washington Railroad & Navigation Co. Pullman Company (Equipment only). Seattle-Issaquah Electric Railway.	. \$14,696 6,970,888 3,700,000 6,374,155 65,891 17,796,789 1,573,902	1,702,000 2,982,111 30,310 8,186,500 723,965 7,428
Scarrig-Inguian Triggelia Wanaa	. 40,250	10,010

## Schedule "C"-Table IV.-Continued.

NAME OF BOADS BY COUNTIES	Assessed ratio to actual value (Pct.)	Actual value	Equalized value
18. KITSAP Milwaukee Terminals Railway	42.5	\$41,792	\$17,762
Totals		\$41,792	\$17,762
19. KITTITAS  Ohicago, Milwaukee & St. Paul Railway  Northern Pacific Railway		\$6,352,057 8,858,688	\$8,215,542 8,410,595
Totals		\$17,210,745	\$6,626,137
20. KLICKITAT Oregon Trunk Bailway Spokane, Portland & Seattle Railway	40.0	\$156,560 10,852,968	<b>\$0</b> 2,624 <b>4,84</b> 1,147
Totals		\$11,009,428	\$4,408,771
21. LEWIS  Centralia Eastern Railroad  Great Northern Railway  Northern Pacific Railway  Oregon-Washington Railroad & Navigation Co.  Pullman Company (Equipment only)  Tacoma Eastern Railroad  Puget Sound & Willspa Harbor Railway  Washington Electric Railway		\$56,651 \$67,798 5,889,474 485,225 16,290 650,448 514,656 77,075	\$90,281 181,670 1,929,482 178,711 5,832 282,860 184,247 27,598
Totals		\$7,557,612	\$2,705,626
22. LINOOLN  Chicago, Milwaukee & St. Paul Railway.  Great Northern Railway.  Northern Pacific Railway.  Oregon-Washington Railroad & Navigation Co. Pullman Company (Equipment only).  Spokane, Portland & Seattle Railway.	42.5	\$55,112 6,549,127 4,612,656 647,545 5,807 210,562	\$28,428 2,783,379 1,980,879 275,207 2,255 89,489
Totals	<u></u>	\$12,080,309	\$5,184,182
23. MASON Blakely Railroad Northern Pacific Railway Peninsular Railway		\$174,715 24,708 270,710	
Totals		\$470,138	\$178,960
24. OKANOGAN Great Northern Bailway Totals.	40.0	\$8,946,282 \$8,946,282	
25. PACIFIC  Northern Pacific Railway.  Oregon-Washington Railroad & Navigation Co.  Puget Sound & Willapa Harbor Railway		\$1,128,867 779,413 389,221	292,280
Totals.		\$2,297,501	' <u>-</u>

### Schedule "C"-Table IV.-Continued,

NAME OF ROADS BY COUNTIES	Assessed ratio to actual value (Pct.)	Actual value	Equalized value
26. PEND OREILLE Great Northern Railway Chicago, Milwaukee & St. Paul Railway Pullman Company (Equipment only)	40.6	\$1,518,771 2,504,648 923	\$616,621 1,016,887 375
Totals	<u></u>	\$4,024,842	\$1,633,863
27. PIEROE  Chicago, Milwaukee & St. Paul Railway. Great Northern Railway. Milwaukee Terminals Railway. Northern Pacific Railway. Oregon-Washington Railroad & Navigation Co. Pullman Company (Equipment only). Tacoma Eastern Railroad.	45.0	\$1,820,788 472,757 295,787 10,586,436 579,710 23,540 2,367,744 \$16,096,786	\$819,858 212,741 133,100 4,741,390 260,874 10,565 1,065,485
28. SAN JUAN	89.5		
29. SKAGIT  Canadian Pacific Railway (Equipment only)  Great Northern Railway.  Northern Pacific Railway.  Puget Sound & Baker River Railway.  Totals.		\$16,670 4,595,916 8,183,782 186,678	\$4,551 1,254,665 865,509 50,968 \$2,165,709
30. SKAMANIA Spokane, Portland & Seattle Railway	40.0		
Totals	<del></del>	\$4,209,666	\$1,683,886
81. SNOHOMISH  Canadian Pacific Railway (Equipment only) Chicago, Milwaukee & St. Paul Railway Great Northern Railway Marysville & Arlington Railway Marysville & Northern Railway Northern Pacific Railway Pullman Company (Equipment only) Washington Western Railway Totals		\$24,178 760,921 10,822,687 154,852 88,200 7,591,255 8,233 89,765	\$10,066 \$16,543 4,294,217 64,418 36,691 3,187,963 1,345 37,342 \$7,918,576
82. SPOKANE Chicago, Milwaukee & St. Paul Railway. Great Northern Railway. Northern Pacific Railway. Oregon-Washington Railroad & Navigation Co. Pullman Company (Equipment only). Spokane International Railway. Spokane, Portland & Scattle Railway.	39.7	\$2,006,410 7,668,051 8,467,243 6,490,658 13,402 590,000 3,698,668	\$796,845 8,044,216 8,361,496 2,576,791 5,321 234,230 1,420,686
Totals	<del></del>	\$28,829,432	\$11,445,284

Schedule "C"—Table IV.—Concluded.

NAME OF ROADS BY COUNTIES	essed o to tual Actual due value et.)	Equalized value
Great Northern Railway		\$1 ,895 <u>;0</u> 82
Totals	\$4,396,926	\$1,885,082
84. THURSTON Black Hills & Northwestern Railway. Centralia Eastern Railway. Chicago, Milwaukee & St. Paul Railway. Great Northern Railway. Northern Pacific Railway. Oregon-Washington Railroad & Navigation Co. Pullman Company (Equipment only). Puget Sound & Willapa Harbor Railway.	11,712 1,686,775 239,949 5,604,056 771,879 18,808	\$48,389 4,665 435,510 95,980 2,241,622 308,562 -7,921 72,985
Thurston County Railway	75,898	30,859
Totals	\$8,111,907	\$3,244,668
% WAHKIAKUM 3	5.0	
88. WALLA WALLA 4.  Northern Pacific Railway	2.0 \$4,881,561 10,117,012 24,165	\$1,819,264 4,249,145 10,249
Totals	\$14,472,758	\$6,078,558
57. WHATOOM	\$1,384,000 16,456 3,369,249 25,339 3,838,879 \$8,627,988	\$498,240 5,924 1,212,570 9,144 1,880,196 \$3,106,074
88. WHITMAN  Ohicago, Milwaukee & St. Paul Raliway.  Northern Pacific Raliway.  Oregon-Washington Raliroad & Navigation Co.  Pullman Company (Equipment only).  Spokane, Portland & Seattle Raliway.  Washington, Idaho & Montana Raliway.  Totals.	0.2 \$5,328,908 3,441,876 12,831,708 10,083 967,146 110,780 \$23,669,901	\$1,141,980 1,883,684 5,560,347 4,053 388,798 44,584 \$9,523,841
89. YAKIMA 44	3.0	\$79,994 8,867,554
Chicago, Milwaukee & St. Paul Railway	1,695,778	780,056
Chicago, Milwaukes & St. Paul Railway.  Northern Pacific Railway.  Oregon-Washington Railroad & Navigation Co.  Totals.	1,696,778	780,056 \$4,727,604

SCHEDULE "C"—Table V.—RECAPITULATION OF STEAM RAILROADS—VALUATIONS BY RAILROADS—YEAR 1916.

Actual Palingham & Northern Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railwad   Railway   Railwad   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railway   Railwa	Equalized  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  Talue  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(1900) 173 (1900) 173 (1900) 173 (1900) 173 (1900) 173 (1900) 173 (1900) 173 (1900) 173 (1900) 173 (1900) 173 (1900) 173 (1900) 173 (1900) 17	Equalized value \$74,982 19,804 19,240	Actual	Equalized value
* : 88.88 501 7*	<u> </u>	288,144 26,000 72,000 72,000 288,500 288,400 8,014,800 8,014,800 12,600	\$74,982 19,804 19,240		
8 8 9 74	¥	88.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18	19,240	81,384,000	173,884
Railway 86 Ad 8 Company 86 Navigation Company 47	고구경	72,000 1,340 4,588,425 288,400 8,014,680		17,715	3 2 8 3 2 8
Railway 86 ad. Company 67 Company 70 Navigation Company 47	ત્રે ^{તે} શ્રે 	4,588,400 288,400 8,014,680 12,600	987	88.88	8,78 7,87 7,87
Company 62 Company 62 Company 63 Company 64 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65 Company 65	- ⁻ 'ਡ 	8,014,680 12,600	1,884,262	40,808,900	16,745,02
Company  106  Navigation Company  47		12,600	8.145,278	70,587,885	27,988,99
106 Navigation Company 47		30.05	9,300	98,	8
506 Navigation Company 47		35,700	14.861	88,200	8
allway.  way  Analrond & Navigation Company  47		196,000	88,892	482,500	213,44
Rallroad & Navigation Company47	<b>설</b>	21,147,486	8,617,388	126,554,615	56,88
	2	8 770 940	1,024	FO. 774 FOD	90,500
	ī —	8.000	96.38	270,710	100,168
		16,150	4,400	186,678	50,98
Puget Sound & Willapa Harbor Railway.	_	<b>2</b>	82,82	1,084,884	9 9 9 1
:		90,01	7,537	46,950	2,5
		287,000	118,500	1.084.825	504.47
& British Columbia Rallway,		12,700	5,778	158,835	96,78
International Raflway		28,000	20,645	200,000	87.88
Portland & Seattle Rallway	15,	1,596,470	647,161	30,668,720	16,074,41
		98,8	314,086	8,018,192	26,58
Durington County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments are considered and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and the County regiments and			2.757	77.075	8.29
Idaho & Montana Railway.		000	10,488	110,780	44,58
Vanhington Western Railway.	911 17,166	ooz o	901.2	42,911	17,165
Venatchee Valley & Northern Rallway.		40,3U0	_	100,000	20,00

# SCHEDULE "C"—Table VI.—RECAPITULATION OF ELECTRIC RAILWAYS—VALUATIONS BY COUNTIES.

NAME OF ROADS BY COUNTIES ratio to actual value (Pct.)	Actual	Equalized value
ASOTIN	. \$13,700	\$6,302 \$6,302
OLARKE	. \$196,720	\$66,295
Totals	. \$196,720	\$86,295
GRAYS HARBOR	-	\$456,000
Totals	. \$1,200,000	\$456,000
Loyal Bailway Pacific Northwest Traction Company Puget Sound Electric Company Puget Sound Traction, Light & Power Co. Seattle, Renton & Southern Railway Western Washington Power Company	. 1,200,000	\$6,210 179,467 980,806 7,692,672 562,000 20,240
Totals	. \$20,894,885	\$9,381,395
LEWIS	. \$176,880 . \$176,380	\$68,144 . \$68,144
PACIFIC 87.5 Willapa Electric Company. Totals.	. \$108,700 . \$108,700	
PIEROE	\$245,500	489,429
Totals	\$4,822,009	\$2,169,904
SKAGIT		<b>\$263,350</b>
Totals	\$964,651	\$263,360
SNOHOMISH 41.6 Everett Railway, Light & Water Company. Pacific Northwest Traction Company. Puget Sound Traction, Light & Power Co.	\$1,275,000 839,775	349,846
Totals	\$2,818,175	\$962,280

## Schedule "C"—Table VI.—Concluded.

NAME OF ROADS BY COUNTIES	messed atio to actual value (Pct.)	Actual value	Equalized value
SPOKANE Spokane & Inland Empire Railroad Company Washington Water Power Company		\$5,275,101 8,550,000	\$2,094,216 1,409,350
Totals		\$8,825,101	\$3,506,566
THURSTON Olympia Light & Power Company	40.0	\$880,000	\$1.52,000
Totals		\$330,000	\$1.82,000
WALLA WALLA	42.0	\$372,000	\$156,240
Totals		\$372,000	\$156,240
WHATCOM Pacific Northwest Traction Company		\$847,980 1,780,000	\$125,255 688,600
' Totels		\$2,107,980	\$758,855
WEITMAN Spokane & Inland Empire Railroad Company	40.2	\$8,224,890	\$1,296,400
Totals		<b>\$8,224,899</b>	\$1,296,400
YAKIMA	46.0	<b>\$</b> \$13,000	\$1.89,980
Totals.		\$413,000	\$189,980
GRAND TOTALS		\$45,462,600	\$19,446,48

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DETINENTION	Assessed ratio to		COMPANY	WESTERN UNION TELEGRAPH COMPANY	POSTAL T	TELEGRAPH-OABLE COMPANY	H-OABLE	TELE	TOTAL TELEGRAPH COMPANIES	MPANIES	1
00001158	value (Pet.)	Wire	Actual	Equalized	Wire	Actual	Equalized value	Wire	Actual	Equalized value	
Adams	40.0	<b>38.89</b>	\$35,012	\$14,005	168.00	870,078	170,17	8.049	\$45,040	\$18,016	
Benton	43.0	259.20	19.440	8.850				259.20	19.440	8.359	* 00
Obelan	0.0	287.75	22,28	8,848				287.75	21,581	8,848	•
Charles	3.5	8.8	5,746	2,875 F	<del>3</del>	2,021	1,200	8.8	×,	4,132	٥ «
Oolumbia	8.5	188.70	14,150	5,108				188.73	14,150	5,168	
Oowlitz Douglas	813	86.5 88.5	27,48 8,48	880.4	180.00	<b>78</b> , 66	0.6,2	7.58	28,284	10,998	000
Perry	}										. 5
Franklin	0.84	416.76	81,257	18,441				416.76	81,257	13,441	Ξ
Grant	2.8	2.92 2.53 3.53	1,238	483	140 00		202 0	16.50 02.90	1.28	481	212
Grays Harbor	88	169.88	12.740	184	202.00	1000	999,60	98.00	12,740	198.4	3 7
Island											::2
Jefferson	0.08	66.75	4,981	1,923	98.98	8,069	1,197	121.75	8,000	3,120	2
King	0.0	1,267.60	86,98 6,98	48,732	481.45	23,643	10,876	1,690.65	118,718	25,608	=
Kittitas	2 8 0 7	95.5	25, 25 00, 25 00, 25	22,020	8.58	28.2	218	34.6	200	2,139	200
Kledtst	3			01407	3	10,000	200,0		2007 (200	4000	2 8
Lewis	86.8	852.90	28, <del>1</del> 28	9,430	180.00	198'6	3,581	582.30	786,287	12,990	2
Lincoln	42.5	452.36	226,88	14,419	42.00	2,466	1,048	497.36	36,393	15,467	ន្តរ
Okanogan	:	:				:::::::::::::::::::::::::::::::::::::::					22.2
Pacific	r.	8	010 7	7	:	:		A5 46	7 000	2	2 %
Pend Orellle	9.0	86.08	6.675	2,710				88	6.675	2.710	8
Plerce	42.0	641.23	48,002	21,641	241.00	13,207	6,948	886.28	61,296	27,584	22
Skagit	8.73	818.80	23,535	6. E	102.00	5,560	1,526	415.80	29,125	7,961	38
Skamenia Snohomish	9 17	787 787	49 270	17 690	OKE OU	200 01	K 787	20 015	276 278	406 60	85
Врокаве	8.7.	981.22	73,502	29,216	189.00	7,617	8,00,8	1,120.22	81,200	22,	2
Stevens Thurston	0.04	358.13	26.485	10.30	162.00	8.229	8.836	506.13	84.814	18.926	೫೫
Wahklakum											8
Walls Walls	\$ \$ 0.0	262.95	19,47	17,418	117 00	A 411	aus 6	52.95	41,471	17,418	3 88
Whitman	3.63	976.55	78,241	29,448	3	77.0	7,900	976.55	73,241	28,43	5 <b>8</b>
Yakima	6.0	880.88	25,499	11,730		:		386.88	25,480	11,730	88
Totals		10,256.14	\$769,139	\$812,942	2,589.45	\$141,845	\$56,688	12,848.50	\$90,010	\$369,580	

SCHEDULE "D".-Abstract Showing Total Assessment of All Taxable Property in the State of Washington for the Year 1916.

Actual value of real and telegraph lines and personal prop-erty (exclusive of steam rallroads. electric railways \$69,473,140 10,486,972 11,113,983 12,111,983 12,111,983 12,111,983 12,111,983 12,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 13,111,983 81,991,418,485 Assessed (Pet.) 41.40 value 38288 85.8 steam railroads. Aggregate value of real and per-7,004,746 135,638,732 16,842,036 17,442,036 17,442,036 18,930,039 18,930,039 18,930,039 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 11,530,930 and telegraph MRN, 317, 150 (exclusive of equalized by Hoes) as Aggregate value of real property steam railroads. electric raflways equalized by county boards 28, 556, 559 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,745, 140 1,74 and telegraph 701,086,812 (exclusive of lines) as 202,484 Aggregate value of taxable per-sonal property (exclusive of steam railroads. electric railways county boards 1124,080,847 and telegraph equalized by Ines) as Dowlitz ...... Grans Harbor Okanogan Pacific Onelan Otaliam Columbia Douglas ..... Ferry Franklin Garfield ..... Jefferson ...... Klickitat Lewis ....... Lincoln ....... 3.00 de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la con Pend Orelile ...... Plerce ...... San Juan ...... Skagft ....... Skamania ..... Snohomish ...... spokane ...... Whatcom Yakima COUNTIES Totala Wahkiskum Churston Benton Olarke Asotin 

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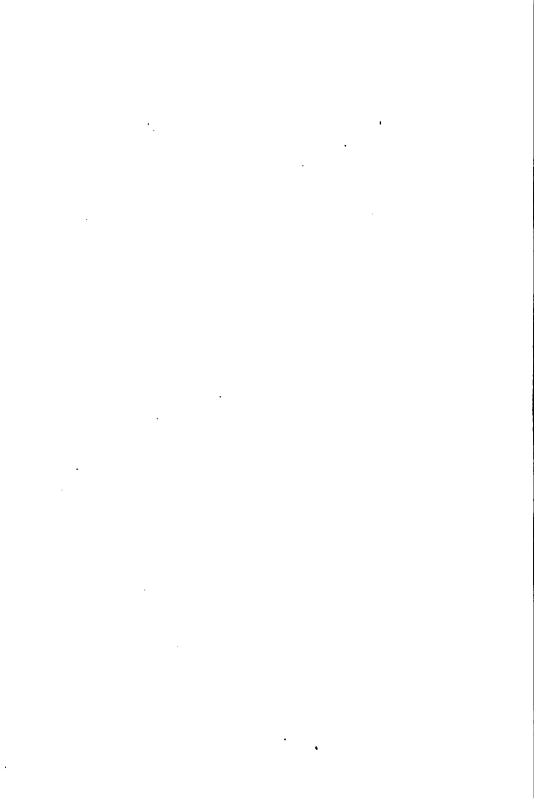
	AOTUA	ACTUAL VALUES AS STATE BOARD OF	DEFERMINED BY EQUALIZATION	ED BY	Actual value of real and per-	Aggregate actual value of	Aggregate value of all taxable property	¥ 5.
OOUNTIES	Steam railroada	Electric	Telegraph lines	Total steam rail- roads, electric railways and telegraph lines	(exclusive of steam rail- roads, electric railways and telegraph lines)	sonal property, sonal property, including steam raffroads, electric railways and telegraph lines	Including steam rail including steam rail roads, electric rail.  ways and telegraph lines, as equalised by state board of equalization	:448v
1 Adams 2 Aaotin	861,009,238	000, 819	945,040	<b>182, 494, 233</b>	\$80,473,140	\$62,967,373	976,168	<b>~</b> °
Beaton	13,552,217	91	19,440	18,571,667	16,499,407	30,071,064	12,476,484	4 00
o Callam	90, 100,0		24 8 28 4 28 4 28 4	1,001,025	27,277,908	28,279,585	16,572,488	<b>4</b> 10
6 Clarke 7 Columbia	6,158,973 8,882,683	196,730	210	6,350,402 8,886,789	36,987,498	43,238,100 29, 755, 765	17,989,488	<b>0</b> t
8 Oowlite	6,022,900		87,264	6,000,173	25,227,880	81,287,512	12,981,180	- ∞
	2,520,52 20,520,53 30,530,53		2,604	8,402,566 2,285,604	5,671,786	77,874,818	11,565,055	<b>a</b> <u>c</u>
	18,906,870		81,2507	18,967,127	10,814,177	24,751,80	10,969,816	=
	12,413,794		26.22.38 22.23.38	12.440.017	24.661.048	37,091,066	5,600,487	2 2
14 Grays Harbor	6,708,419	1,209,000	12,740	6,981,159	76,061,634	88,012,798	84,442,008	12:
	288 927		8.000	7.60 1.96	16,189,910	7,700	7,700,520	2 %
	36, 562, 163	20,394,885	118,718	57,086,211	511,966,963	500,061,174	286,001,064	22
	20, 10, 11		5,081 99,081	25,283	16,624,467	16,471,810	6,883,947	<b>8</b> 2 9
Klickita	11,000,428		787'00	11,000,428	23,401,667	2,41,086	14.277,150	3
Lewis	7,567,612	176,380	88,287 782,287	672,077,	48,708,488	717, 217, 217	23,430,530	22
_	470.188		200,000	470.188	14,124,218	14.504.346	20, 40, 40, 40, 40, 40, 40, 40, 40, 40, 4	3 13
_	8,946,288			8,946,292	16,681,255	20,577,587	8,587,620	3
	4,064,842	106,700	9,4	2,411,111	25,944,725 02,044,725	26,256,385. 1,286,385.	14,627,646	<b>8</b> 8
	16,006,786	4,882,000	61,200	20,080,074	178,224,644	194,204,618	80,575,486	ផេ
	7.982.998	284.651	90 19K	8 09K 779	8,740,162	8,749,158	1,555,523	8 8
Skamania	4,200,006			4,200,666	8,585,042	12,744,708	6,287,779	8
Shorten	19,085,041	2,818,176	85. 82. 83.	21,404,459	74,489,495	796,806,88	20,730,551	<b>5</b> 8
_	4,396,996	101,000,0	and to	780,000,10	24.046.978	28,448,904	11.801.878	3 8
Thurston	8,111,907	380,000	84,814	8,476,721	26,158,245	84,684,996	14,870,047	*
÷	14 499 750	9000 0000	Į		4,715,046	4,715,048	2,986,278	8
_	8,627,988	2.107.980	18,700	10,764.673	57,650,567	08,406,240	28, 382, 301	8 8
38 Whitman 39 Yakima	28,689,52	3,224,800	78,241	26,968,041	88,428,881	110,411,872	45,800,886	28 8
	AV, 641, 000	000'erra	A65,07	TO, (1D, ORO	010'910'TO	(2,004,240	60,011,470	8
Totals	\$841,917,989	\$45,402,600	886,010	\$388, 291, 527	\$1,991,418,486	\$2,879,706,012	8087,389,608	

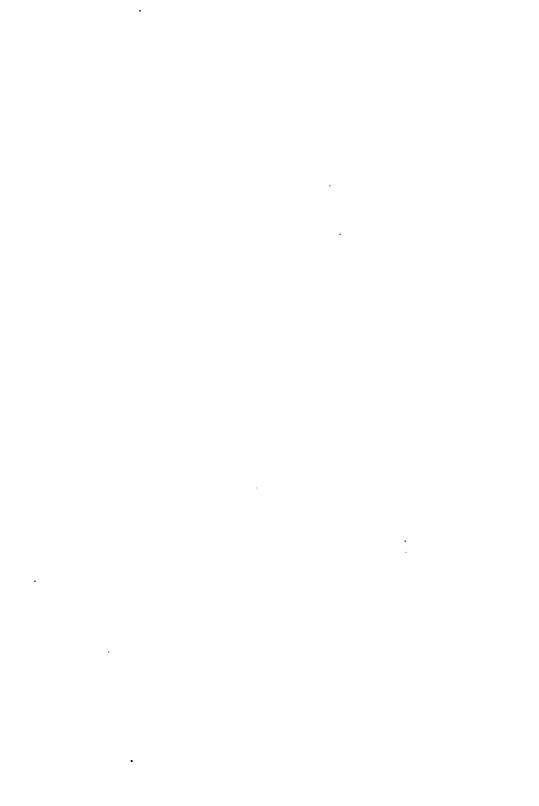
SCHEDULE "E"—Abstract Showing Amount of Tax for each of following funds: State General, State School, Military, Permanent Highway, Public Highway, University of Washington, Washington State College, Cheney, Bellingham and Ellensburg Normal Schools, to be raised by each county, for the year 1916.

_					HIGHWAY FUND		
		Amount	Amount	Amount	HIGHW	AI FUND	
	COUNTIES	of state general tax to be paid by each county	of state school tax to be paid by each county	of tax for military fund to be paid by each county	Amount of tax for public highway fund to be paid by each county	Amount of tax for permaner highway fund to leach county	or nt y be
			<u> </u>		county		
		Rate of levy 1.85 mills	Rate of levy 2.10 mills	Rate of levy 0.20 mills	Rate of levy 1.00 mills	Rate of levy 1.50 mM	
1	Adams	\$40,656	\$46,150	\$4,395	\$21,976	\$32,964	1
2	Asotin	7,867	8,361	796	3,982	5,972	
8	Benton	23,081 30,659	26,201 84,802	2,496 8,814	12,476 16,572	18,715 24,859	;
5	Clallam	21,706	24,640	2,347	11,734	17,600	
0	Clarke	88,188	87,673	3,586	17,989	26,909	1 9
7	Columbia	17,818 24,015	19,652 27,260	1,872 2,596	9,358 12,982	14,087 19,472	3
9	Douglas			2,313	11,565	17,348	1 8
10	Ferry	5.609	6,867	606	3,082	4,548	10
11	Franklin	18,998	21,566	2,054	10,269	15,404	11
12	Garfield	10,861	11,761	1,120	5,601	8,401	15
18 14	Grant	28,470 63,718	32,817 72,328	3,078 6,888	15,389 84,442	23,064 51,663	13
15	Island	3,202	3,708	358	1,763	2,645	15
16	Jefferson	18,121	14,895	1,419	7,098	10,639	16
17	King	486,768	495,791	47,218	286,091	354,137	17
18 19	Kitsap	12,648 87,869	14,351 42,996	1,367 4,094	6,834 20,470	10,251 30,704	18
50	Klickitat	26,413	29,982	2,855	14,277	21,416	20
21	Lewis	43,346	49,204	4,686	23,431	85,146	21
22	Lincoln	48,108	54,609	5,201	26,004	39,007	22
28	Mason	11,202	12,716	1,211	6,065	9,083	23
24 25	Okanogan Pacific	15,795 27,961	17,929 30,718	1,708 2,926	8,538 14,628	12,806 21,941	24 25
26	Pend Oreille	11.023	12,518	1,192	5,959	8,988	26
27	Pierce	149,065	169,209	16,115	80,575	120,863	27
28	San Juan	2,878	8,267	811	1,556	2,333	28
29	Skagit	89,428	44,756	4,262	21,812	81,968	29
30 31	Skamania Snohomish	9,782 73,618	11,104 88,560	1,058 7,958	5,288 89,791	7,982 59,686	30 31
31 ' 82	Spokane	215.861	245,020	28,835	116,676	175,014	32
33	Stevens	21,838	24,788	2,360	11,801	17,702	33
34	Thurston	26,585	30,177	2,874	14,870	21,555	34
35	Wahkiakum	8,619	4,108	891	1,956	2,984	35
16 17	Walla Walla Whatcom	58,008 52,506	65,841 59,601	6,271 5,676	31,353	47,029 42,572	36 37
8	Whitman	84,748	96,201	9,162	28,381 45,810	68,715	38
<b>1 9</b>	Yakima	55,521	63,024	6,002	80,011	45,017	39
	Totals	\$1,826,578	\$2,078,418	\$197,468	\$967,840	\$1,481,009	

Schedule "E"—Concluded.

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		STATE I	nstituti i	ons of H	GHER ED	UCATION	of tax, includ- ing state gen-	
		Amount of tax for		Amount of tax for Belling-	Amount of tax for Oheney	Amount of tax for Ellens-	eral, stat school, mi tary, perm nent highwa	li- 18-
		University			Normal	burg	public highw	
		fund	College	Normal	School	Normal	University	
	0011111111	to be	fund	School	fund	School	Washingto	
	OOUNTIES	paid by	paid by	fund to be	to be	fund to be	State Colleg Chency	ge,
		county	each	paid by	each	paid by	Bellingham	and
			county	each	county	each	Ellensbur	
		\$	l -	county	-	county	Normal Sch'	
		<b>!</b>		{			to be paid	
		<b></b>	l				each count	·7
	•	Rate of levy	Rate of levy	Rate of levy	Rate of levy	Rate of levy	Rate of levy	
		.475 mills	.825 mills	.09 mills	.09 mills	.07 mills	7.70 mills	J
_							***	   _
1 2	Adams	\$10,439 1,891	\$7,142 1,294	\$1,978 858	\$1,978 358	\$1,588 279	\$169,216 30,658	1 2
8	Benton	5,986	4,055	1,128	1,123	878	96,069	8
4	Chelan	7,872	5,886	1,492	1,492	1,160	127,608	4
5	Olaliam	5,578 8,521	8,818 5,890	1,056 1,615	1,068 1,615	821 1,256	90,846 188,184	5
7	Columbia	4,445	8,041	843	848	655	72,059	7
8	Cowlits	6.166	4.219	1,168	1,168	909	99,965	8
10	Douglas		8,759	1,041	1,041	809 212	89,051	10
ii	Ferry	1,440 4,878	985 8,888	274 924	274 924	719	28,847 79,074	ii
12	Garfield	2,660	1,820	504	504	892	48,124	12
18	Grant	7,810	5,001	1,886	1,885	1,077	118,496	18
14 15	Grays Harbor Island	16,360 838	11,194 578	8,100 159	8,100 159	2,410 123	265,208 18,578	14 15
16	Jefferson	3,369	2,805	688	688	496	54,618	16
17	King	112,148	70,780	21,248	21,248	16,527 478	1,817,901	17
18 19	Kitsap Kittitas	0.798	2,221 6,658	615 1,842	615 1,842	1,488	52,621 157,616	18 19
20	Klickitat	6,782	4,640	1.985	1,285	999	109,984	20
21 i	Lewis	11,180	7,615	2,109	2,109	1,639	180,415	21
# #	Lincoln	12,85 <u>2</u> 2,876	8,451 1,988	2,840 545	2,840 545	1,822 424	200,234 46,625	22 28
24	Okanogan	4,055	2,775	768	768	598	65,740	24
25	Pacific	6,949	4,754	1,816	1,816	1,024	112,683	25
26 27	Pend Orelle	2,880 88,278	1,987 26,187	586 7,252	586 7,252	417 5,640	45,881 620,431	26 27
28	San Juan	789	506	140	140	108	11,978	28
29	Skagit	10,128	6,926	1,918	1,918	1,498	164,104	29
30 31	Skamania Snohomish	2,512 18,901	1,719 12,981	476 8,581	476 8,581	2,785	40,716 806,387	80
2	Spokane	55,421	87,920	10.501	10,501	8,168	898,407	82
22	Stevens	5,606	8,885	1,062	1,082	826	90,870	88
34 85	Thurston	6,826 980	4,670 686	1,298 176	1,298 176	1,006 187	110,649	84 85
36	Wahkiakum Walla Walla	14,898	10,190	2,822	2,822	2,195	15,068 241,419	36
87	Whatcom	18,481	9.224	2.664	2.554	1,988	218,536	87
86 20	Whitman	21,759	14.888	4.198	4.128	8,207	852,736	88 89
<b>3</b> 2	Yakima	14,255	9,754	2,701	2,701	2,102	281,088	- De
	Totals	\$408,986	<b>\$820,885</b>	\$98,861	<b>\$88,861</b>	\$69,114	<b>\$7,602,515</b>	



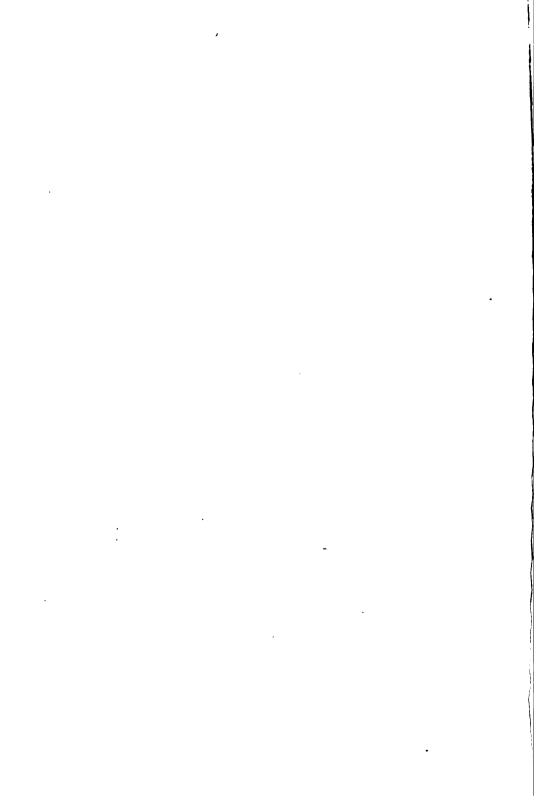


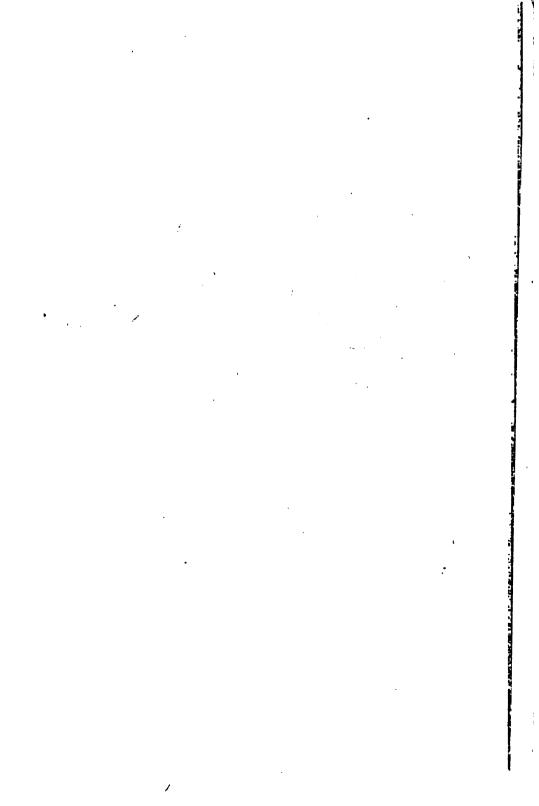
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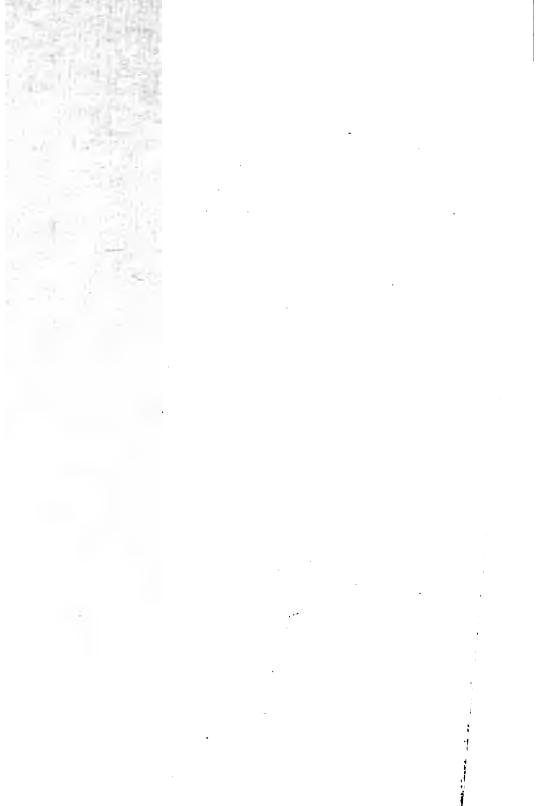
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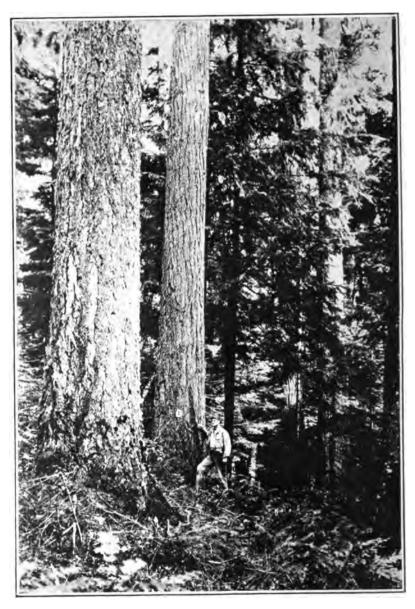
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Published by courtesy of C. A. Billings.

A view showing specimens of old growth Douglas fir.

#### STATE OF WASHINGTON

## ANNUAL REPORTS

## Washington State Forester

For the Years Ending November 30, 1915, and November 30, 1916



#### TO THE

## State Board of Forest Commissioners

W. W. EMERY, Chairman, Napavine
C. V. SAVIDGE, Land Commissioner, Olympia
FRANK B. COLE, Tacoma PATRICK McCOY, Seattle
E. G. ENGLISH, Mt. Vernon

F. E. PAPE, Forester and Secretary, Olympia

OLYMPIA, WASH.

FRANK M. LAMBORN PUBLIC PRINTER

1916

#### EXPLANATORY.

This publication contains annual report by State Forester E. W. Ferris for the year ending November 30th, 1915, which report has not heretofore been published. Also annual report by State Forester F. E. Pape for the year ending November 30th, 1916, and a tabulated recapitulation of the finances and work of this department since its organization A. D. 1905.

### STATE BOARD OF FOREST COMMISSIONERS.

W. W. EMERY, Chairman, Napavine.

PATRICK McCOY, Seattle.

E. G. ENGLISH, Mount Vernon.

FRANK B. COLE, Tacoma.

C. V. SAVIDGE, Commissioner of Public Lands, Ex-Officio.

#### OFFICE OF THE DEPARTMENT OF FORESTRY.

OLYMPIA, WASHINGTON, December 1, 1915.

To the Honorable State Board of Forest Commissioners of the State of Washington.

Gentlemen: I have the honor of submitting herewith a brief report covering matters of the department for the year 1915.

E. W. Ferris,

State Forester and Fire Warden.

#### OFFICE OF THE DEPARTMENT OF FORESTRY.

OLYMPIA, WASHINGTON, December 1, 1915.

To the Honorable State Board of Forest Commissioners of the State of Washington.

GENTLEMEN: We have the honor of submitting herewith a general report of the work of the department for the year 1915.

The season of 1915, so far as loss of standing timber is concerned, was quite successful, probably more so than any other season in the history of the department, with the exception of 1913. The estimate of the value of standing, merchantable timber destroyed is \$10,000.

In the northern portion of the state, on the west side of the Cascade range the past season was the driest ever known; in the southern portion of the state it was about the same as last season; while east of the mountains the weather conditions were not quite so bad as existed during the summer of 1914. During the summer of 1914 it was exceeding dry throughout the entire state, more so than any season in thirty years, but in the northern portion of the state, west of the Cascades, during the past summer it was much worse than during 1914. During the summer of 1915 we had much more wind than during the preceding summer, which made conditions all the more hazardous. The loss during 1915 was about one-half that of 1914.

As we view it, one reason for the decrease in losses during the season of 1915 under that of 1914, was that we had more men in the field. The result obtained by this experiment was such as to satisfy us that the number of men should be increased next season, unless weather conditions are far more favorable than they have been during the time we have been in this position. We feel that the main thing is to prevent fires from starting or gaining headway, and the only way this can be done is to have a sufficient number of men on patrol duty so that a fire can be reached by one of them in its incipiency.

We believe the time is drawing near when two classes of wardens should be placed in the field. It is impossible for a warden to be looking after the controlling of forest fires and protecting the timber therefrom, and also be looking after the interests of the farmer in the matter of issuing permits. The logged off lands of our state are being rapidly cleared, and in order to do such clearing it is necessary to burn over the same, and during the summer months this cannot be legally done without first obtaining a permit. If our wardens are looking after fires which are threatening the timber it is impossible for them to properly serve the rancher who is endeavoring to clear the land and make a home for himself. Therefore we believe that there should be a warden appointed in those counties having large areas of logged off agricultural lands being cleared whose sole duty would be to look after the farmer in the matter of issuing burning permits. This warden should be stationed in what we might call the agricultural district of the county. It is in this district that the very great percentage of permits are issued. The warden who is appointed to look after fires which threaten our forests has no time to stop to issue permits when a fire is reported to him, and because of the fact that he cannot find time to issue such permit the man who is striving to clear the land is placed at a great inconvenience, and often times is compelled to wait for a week or more in order to obtain a permit. This delay in issuing permits does not tend to keep down fires, but probably results in many fires which are reported to the department by the wardens "cause unknown."

#### FOREST LAW VIOLATIONS.

While but few arrests were made for violations of the forest laws, we are led to believe from the reports sent in by the fire wardens, and because of the numerous fires reported "cause unknown," that many infractions of the law were made, but the guilty parties could not be apprehended. Six arrests were reported, three by fire wardens and three by U. S. forest ranger. Of the arrests reported by fire wardens, two convictions were secured, and one party was acquitted. The parties convicted were young men 15 and 17 years of age. They were fined two

dollars and costs or a total of six dollars and fifty cents, for setting fire to a bee tree, and leaving same unquenched. The party acquitted was arrested for violating the conditions under which burning permit was granted. The three arrests reported by U. S. forest ranger, were for burning without permit, and fines aggregating sixty dollars in addition to the costs were collected.

Table No. 1.

FINANCIAL STATEMENT.

Expenditures from November 30, 1914, to December 1, 1915.

	1	
EXPENDITURES, appropriations biennium 1918-14 (November 30, 1914, to April 1, 1915): Salary, State Forester and Fire Warden	\$666 68 10 45 81 70 89 85 500 00 287 75 884 33	
Total	•••••	\$1,870 26
Total, appropriations 1913-14.       \$76,000 00         Total expenditures       55,348 49		
Unexpended balance April 1, 1915		
EXPENDITURES, appropriations biennium 1915-16 (March 81 to December 1, 1915):  Salary, State Forester and Fire Warden. Traveling expenses, State Forester and Fire Warden. General office expenses. Phone, long distance, and telegraph service. Postage Miscellaneous office and field expenses. Office equipment (filing cases). Traveling expenses, State Forest Commissioners. Salary, Assistant State Forester and Fire Warden. Salary, stenographer Per diem of fire wardens. Per diem of fire wardens. Fire fighting (men employed). Transportation (men and supplies to fires). Subsistance (for men employed at fires) Tools and equipment Printing	841 79 41 77 131 50 159 81 57 22 92 20 1,000 00 417 50 12,989 44 4,249 18 677 41 7,728 80 112 70 489 21 39 88	•
Total		\$29,909 16
Total expenditures, fiscal year, Nov. 80, 1914, to Dec. 1, 1915.		\$81,779 42
APPROPRIATIONS, biennium 1915-16:  Salary, State Forester and Fire Warden	-	
Expenditures, appropriations 1918-16	\$29,909 16 40,090 84	
Total	\$70,000 00	

^{* \$3.56} incurred by F. W. F. P.

Table No. 2.
PER DIEM AND EXPENSE OF FIRE WARDENS—1915.

	1	Per Diem	Expense	Totals
Grays Harbor	A. J. Jackson	\$400 00	\$23.40	2423 40
,	P. R. McGreevey	157 50		157 50
	John Joyce	70 00		70 00
Clallam		351 00		351 00
OI - II	O. H. Winters	327 00		327 00
Clallam and Jefferson. Clallam		285 00 100 00	•••••	285 00 100 00
Clarke		100 00 855 89	6.85	362 67
Cowlitz		379 99		379 99
	A. Allison	92 50		92 50
Ferry		400 00		400 00
Island	George Mitchell	842 00	8 00	350 00
Jefferson		400 00	5 60	405 60
King		400 00	20 39	420 39
•••	Manly Wilbur	299 99	7 07	307 06
Kitsap		440 00	40 56	480 56 80 80
Klickitat	J. R. Rankin	80 00 400 00	17 35	417 35
Lewis		454 67	86 96	540 62
Бены	Jay Hoagland	197 50		197 50
	Robert Brown	176 70		176 7
Mason	W. S. Taylor	386 65		386 6
Pacific	G. G. Hicks	879 99	14 95	394.9
Pierce	S. R. Fraser	400 00	j	400
		819 99	5 55	325
Pend Orellie	Fred W. Miles	400 00	30 05	430
Oberett	J. H. Long	342 00	112 72	342 ( 571 (
3Kagit	Knute Husby	458 88 262 50	112 72	962
	J. G. Lerch	150 00		150
Skamania	J. F. Sweeney	296 40	12 60	309 (
	T. E. Hooker	160 50		160 8
Snohomish	Fred S. Anderson	266 67		266 €
	J. K. Dunwoody	88 83	11 09	94.4
	Hugh Allan	399 67	11 65	411 3
JLC v C1115	WHIGH CHIMES	440 00	43 31	483 8 218 7
	Wm. Martzell	218 75	12 20	422 2
Physican	C. S. Durgin	410 00 440 00	24 80	464 8
	J. A. Feazle	206 66	21.00	206 6
	Gorden Wiest	176 67	1 75	178 45
Whatcom	A. W. Frost	398 33	34 40	427 73
	1 0	243 33	143 61	396 94
State	C. A. Billings	Z40 33	149 01 1	QL0 41
State	C. A. Billings	\$12,939 44	9673 85	\$13,613 29

Table No. 3.

# PER DIEM OF MEN EMPLOYED UNDER THE COOPERATIVE AGREEMENT BETWEEN THE FEDERAL GOVERNMENT AND STATE—1915.

County	Fire Warden	Federal	STA PROPO		Totals
•	Federal Patrolman	Proportion	Per Diem	Expense	2000
Grays Harbor	Geo. M. Landon	\$142 50	\$67 50		\$210 00
Clallam	Fred Brotherson Dan Kelley	1 142 50	52 50 52 50		195 00 180 00
·	C. B. McDonnell	172 50	90 00		262 50
	C. B. McDonnell F. E. Wayne	167 50	27 50		195 0
Clarke Clarke and	S. S. Campbell	115 00	68 75		183 7
Skamania	F. W. Schroeder	145 00	176 66		321 6
Cowlitz	J. G. Irwin	142·50 187·50	90 00 75 00		232 5
	R. A. Rock Geo. Oyster, Sr. Karl A. Fischer Dixon Schively John B. Dano.	142 50	85 00		212 50 227 50
Jefferson	Karl A. Fischer	187 50	90 00		227 5
King	Dixon_Schively	117 50	87 50		205 0
	T. M. Taylor	188 75 130 00	90 00 48 75		228 7
	L. A. Frazier		85 00		178 73 225 0
	Leslie E. Thomas	147 50	90 00		287 5
	D. C. Kessler	150 00	90 00		240 0
Lewis	R. A. Miller	152 50	90 00		242 5
LCW 18	Roy Bergman	122 50 102 50	80 00 52 50		202 50 155 00
					100 0
	Jay_Miller	135 00	90 00		225 O
	A. F. Roundtree	182 50	90 00		222 5
	John Hudson	142 50 170 00	77 50 90 00		220 0 260 0
Mason	R. B. Shafer	175 00	87 50		949 5
	A. F. Roundtree J. T. Chilcoat John Hudson R. B. Shafer John Murray M. W. Allison Bay Lakeon	187 50	85 00		222 50
Pacific	M. W. Allison	137 50	87 50	1	225 0 225 0
Pierce	Ben Jackson R. W. Culver J. R. McHenry	147 50 140 00	90 00		230 0
	J. R. McHenry	185 00			225 0
	Char W. Tavior	179 M	90 00	<b>\$0 26</b>	262 7
Pend Oreille	A. M. White	150 00 165 00	90 00 85 00	8 30	243 3 250 0
rend Orense	Andrew Grav	172.50	90 00		262 5
Skagit	Geo W Chenev	I 07 50	82 50		180 0
	Herman Schreiber	1 4750			47 5
	D. O. Henry	95 00 65 00	90 00		185 0 65 0
	Roy E. Atterberry	145 00			230 0
	Roy E. Atterberry E. O. Perrault A. P. Walders	142 50	90 00		
Charle and	A. P. Walders	122 50	77 50		200 0
Skagit and Snohomish	John Wallace	172 50	90 00		262.5
Skamania	John Wallace L. J. Wright Chas. Noble N. N. Baxter	115 00	75 00		190 0
	Chas. Noble	170 00			240 0
	N. N. Baxter	172 50	75 00		247 5
Stevens	L. C. Bartlett	145 00 172 50	90 00 90 00		235 0 262 5
	John O'Neill	172 50	90 00		262 5
Thurston	Ed. A. Buckman	137 50	90 00	1	227 5
Whatcom	Chas. E. Schuab	172 50 135 00		 	262 50 215 0
	W. J. Phillips	140 00			213 0 212 5
Collaborator		12 00			12 0
Totals		\$7,480 75	\$4,249 16	<b>\$3</b> 56	\$11,733 4
Federal allotmen	t unexpended	519 25	l		
				1	ı

^{*} Amount of the Federal allotment for co-operative work under the Weeks law, for year 1915.

Table No. 4.

AMOUNT EXPENDED IN PAYMENT OF MEN EMPLOYED BY FIRE WARDENS TO PATROL AND CONTROL FOREST FIRES.

WARDENS TO PATROL AND CONTROL FOREST FIRES, TRANSPORTATION, SUBSISTENCE, TOOLS AND EQUIPMENT .—1915.

OOUNTY	Men Employed	Trans- portation	Sub- sistence	Tools and Equipment	Totals
Grays Harbor	\$56 50 408 00	\$68 00	\$6.60	\$1 00 96 25	\$61 10 441 95 25 8 75
Ferry Island Jefferson King	111 50 888 75 685 96	29 00	12 50 10 55	70	158 00 388 75 697 20
Kitsap Klickitat Lewis Mason	61 85 464 00 810 62 9 75		98 11	1 65	61 36 587 11 310 60 11 4
Pacific Plerce Pend Oreille Skagit	127 00 807 50 1,169 68	2 50	287 15	5 18	151 5 548 1 1,177
Ikamania Brohomish Stevens Spokane		11 50 2 50		4 50 2 30 1 00	1,047
Thurston Wahkiakum Whateom Totals		84 20	192 80	10 40	2,581 2,581

Table No. 5.

PERMITS ISSUED BY FIRE WARDENS AND FOREST RANGERS,
AND ACREAGE BURNED UNDER PERMITS—1915.

	For Agricultural Purposes		For Forest Out-Ove	Protection, or Lands
COUNTY	Number Permits Issued	Number Acres Listed	Suitable for Agriculture Acres	Suitable for Re- forestation Acres
Grays Harbor Challam Charke Oowlits Ferry Island Jefferson King Kitsap Kitskitst Lewis	910 819 408 410 61 88 148 1,080 297 41 1,801	9,016 2,820 2,925 8,572 602 1,518 778 15,026 1,251 1,251 14,440	137 1,000 	418 210 500
Mason Pacific Pleres Pend Orelle Skagit Skamania Shohomish Spokane Stavens Thurston Wahkiakum Whateom Chelan	344 160 789 581 881 99 1,626 343 468 714 29 902	1,877 1,855 6,606 1,524 7,755 501 12,902 12,527 8,209 5,634 124 9,799 1,069	500 200 96 1,400 300 1,000	1,000 800 700 
Kittitas	7 8 12,525	95 22 117.788	9,958	8,478

Table No. 6.

ACCIDENTAL FIRES, OUTSIDE THE NATIONAL FORESTS,
AREAS BURNED OVER—1915.

COUNTY	Number of Fires	Agricul- tural Acres	Reforms- tation Acres	Total Area Acres
Grays Harbor	18	162	458 290	620 776
Clallam Clarke	36 1	486 5	290	119
Oowlitz	10	55	55	116
Ferry Island	6	8,000	ļ	3.000
Jefferson	11	464	640	1.10
King	46	1,821	1,678	3,49
Kitsap	11	1,334	666	2,000
Klickitat	9	1,090	990	2,08
Lewis	18	450	20	47
Mason	16	120	240	36
Pacific	2	25		. 2
Pierce	48	2,665	,	. 2,66
Pend Oreille	21	1,190		1,19
Skamania	12	50	450	2.08
Skagit	38 48	1,363	720	3,90
Snohomish	15	2,600 2,090	1,300	2,06
	8	2,080	150	1 2,00
Spokane	18	3.865	1.632	5.49
Wahkiakum	10	15	1,002	.] "
Whateom	107	5,000	2,000	7,0
Totals	498	28,044	11,284	39.8

The 493 fires reported are classified as follows: Lightning, 16; railroad, 26; loggers, 67; brush-burning, 129; campers, 96; incendiary, 11; unknown, 117; and miscellaneous, 40.

Of the areas burned over, 2,888 acres were listed as merchantable timber, and 60 acres as second growth.

Table No. 7.
TIMBER LOSS.

Clarke         Cowlitz           Cowlitz         300           Perry         300           Jaland         50           Jefferson         60,000         50           King         1,700,000         800           Kilekitat         250,000         250           Lewis         100         100           Mason         Pacific         900           Pierce         100         900           Skagit         500,000         150           Skamanía         105,000         212           Stevens         20,000         87           Spokane         100,000         50           Thurston         wahklakum         50	COUNTY	Board Feet Killed	Board Feet Destroyed
Clarke     Cowlitz       Perry     300       Island     50       Jefferson     60,000     50       King     1,700,000     800       Kitsap     250,000     250       Kilekitat     250,000     250       Lewis     100       Mason     100       Pacific     900       Fieree     100       Pend Orelile     300       Skamania     500,000     150       Snohomish     105,000     212       Stevens     20,000     37       Spokane     100,000     50       Thurston     wahklakum	Grays Harbor	100,000	
Cowlitz         7           Perry         300, 300, 50, 126 (erson)         60,000 50, 50, 50, 50, 50, 50, 50, 50, 50			100,000
Ferry         Island         300, 100 (000)         50, 1700,000         50, 1700,000         50, King         1,700,000         300, King         1,700,000         300, King         300, Lewis         300, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis         100, Lewis <td></td> <td></td> <td></td>			
Island     300, Jefferson     60,000     50, 50       Jefferson     1,700,000     300, 50     1,700,000     300, Kitsap     1,700,000     250, Lewis     100, Mason     100, Mason     100, Mason     100, Mason     100, Mason     100, Mason     100, Mason     100, Mason     100, Mason     100, Mason     100, Mason     100, Mason     100, Mason     100, Mason     100, Mason     100, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason     150, Mason </td <td></td> <td></td> <td></td>			
Jefferson     60,000     50,       King     1,700,000     800,       Kitsap     250,000     250,       Klickitat     250,000     250,       Lewis     100,       Mason     Pacific     300,       Pierce     100,     300,       Skagit     500,000     150,       Skamania     105,000     212,       Stevens     20,000     37,       Spokane     100,000     50,       Thurston     wahklakum			. '
King     1,700,000     800,       Kitsap     250,000     250,       Kilekitat     260,000     250,       Lewis     100       Mason     100       Perfece     100,       Pend Orellie     300,       Skagit     500,000     150,       Skamania     105,000     212,       Stevens     20,000     37,       Spokane     100,000     50,       Thurston     wahklakum			300,000
Kitsap       250,000       250,100         Kilekitat       250,000       250,100         Mason       100,         Pacific       100,         Pierce       100,         Pend Orelile       300,         Skagit       500,000       150,         Skamania       105,000       212,         Stevens       20,000       37,         Spokane       100,000       50,         Thurston       wahklakum			50,000
Kilckitat     250,000     250,000       Lewis     100,000       Mason     100,000       Perfde     100,000       Pend Orellie     300,000       Skamania     150,000       Snohomish     106,000       Stevens     20,000       Spokane     100,000       Thurston     wahklakum		. 1,700,000	300,000
Lewis     100,       Mason     100,       Pacific     100,       Plerce     100,       Skagit     500,000     150,       Skamania     105,000     212,       Stevens     20,000     87,       Spokane     100,000     50,       Thurston     Wahkiakum			
Mason       Pacific       Pierce     100       Pend Orellie     300       Skagit     500,000     150       Skamania     105,000     212       Stevens     20,000     37       Spokane     100,000     50       Thurston     wahklakum		. 250,000	250,000
Pacific         100           Pierce         100           Pend Orellie         300,           Skagit         500,000           Skamania         150,000           Snohomish         165,000         212,           Stevens         20,000         37,           Spokane         100,000         50,           Thurston         wahklakum		<b></b> .	100,000
Pierce         100           Pend Orellie         300           Skagit         500,000         150           Skamania         105,000         212           Stevens         20,000         87           Spokane         100,000         50           Thurston         wahkiakum			
Pend Orellie         300, 500           Skagit         500,000         150, 500           Skamania         20,000         212, 500, 500           Stevens         20,000         87, 500, 500, 500, 500, 500, 500, 500, 50		. <del>(` <b></b></del> .	
Skagit         500,000         150,           Skamania         105,000         212,           Stevens         20,000         37,           Spokane         100,000         50,           Thurston         Wahkiakum		. j . <b></b>	100,000
Skamania         105,000         212           Snohomish         20,000         87           Stevens         20,000         50           Thurston         0,000         50           Wahkiakum         0,000         50			300,000
Snohomish         105,000         212           Stevens         20,000         87           Spokane         100,000         50           Thurston         Wahkiakum		. 500,000	150,000
Stevens         20,000         37           Spokane         100,000         50           Thurston         Wahkiakum			
Spokane         100,000         50,           Thurston			212,000
Thurston Wahkiakum			87,000
Wahkiakum		. 100,000	50,000
Whateom 11,000,000   4,000,			
	Whatcom	. 11,000,000	4,000,000
Totals	·		5,949,000

The killed timber can, and no doubt will, be logged with but very little or no loss. The value of the standing merchantable timber destroyed will not exceed \$10,000, which would represent the true loss for the season.

The cooperative work of forest fire protection on the head-waters of navigable streams by the U. S. Department of Agriculture, Forest Service and state, under the Weeks law, was very successful the past season. The Federal government allotted the state \$8,000 for this work. Fifty-one Federal patrolmen were employed within the cooperative areas.

The usual voluntary cooperative working agreement between the state and Washington Forest Fire Association, was in force. The association patrolmen are commissioned state forest rangers. They issue permits to burn and exercise supervision over such burning. They cooperate with the state's forces in controlling and extinguishing forest fires:

The features of the cooperative work as carried on by the U. S. Forest Service and Washington Forest Fire Association with the state, are deemed of great importance. Unity and a

consolidation of forces are gained, where otherwise a duplication of the work of forest fire protection would be inevitable.

Forty-one regularly appointed fire wardens were employed during the season, in addition to a number of men engaged for patrol duty during the driest portion of the fire season. 493 fires were reported. 258 fires were listed outside the cooperative areas and 235 fires within the cooperative areas. Expenditures for fire wardens, federal patrolmen and men employed by them, together with transportation, subsistence, tools and equipment, will be found on preceding pages. These expenditures aggregate \$26,236.60 for work in the field during the fire season. Beside this, several hundred dollars of approved fire fighting claims are outstanding.

At the beginning of the season a campaign of publicity against fire and smoke was made. Thousands of letters in regard to stamping out forest fires and abating the smoke nuisance were mailed to the various women's, automobile and commercial clubs, parent teachers' associations, the newspapers, ministers and individuals. On account of the tourist travel much active interest was manifested in the fire and smoke abatement problem. As a result of this campaign, the public in general were awakened to the necessity of greater care in forest fire prevention. To this hearty and active interest, together with the increased force of patrolmen in the field and the cooperative work with the U. S. Forest Service and Washington Forest Fire Association, can be attributed the cause for the successful season during the year 1915.

The members of the State Board of Forest Commissioners gave of their time and devoted their services to the welfare of the department.

To the newspapers of the state, and all those who so generously responded in the campaign for fire and smoke prevention, and to our co-workers in the field, the department extends its sincere thanks and appreciation.





Fig. 1. Forest scene on state school land, showing old growth cedar trees. White mark on tree indicates scale of one foot.

## REPORT OF THE FORESTER FOR YEAR ENDING NOVEMBER 30, 1916.

OLYMPIA, WASHINGTON, December 1, 1916.

To the State Board of Forest Commissioners.

Gentlemen: In accordance with the provisions of section 4, chapter 125, Laws of 1911, I herewith submit the twelfth annual report of this department. In compiling this I have endeavored to give a general review of the work, together with some suggestions and recommendations including items and subjects which are of importance to the department. I respectfully submit the same for your consideration and approval.

F. E. PAPE, State Forester.



#### INTRODUCTION.

The thoughts and views expressed, in writing and preparing this report, are mainly from knowledge gained from thirty-five years of observation and experience in the woods and forest industries of western Washington, and are based on practical, rather than scientific studies of the subjects.

My appointment as Forester was made on April 15th last, at the very beginning of the fire season. I have been so thoroughly occupied with the conduct of the field work, that little time has been found to study literature on forestry and forest subjects, further than gained through current news and magazine articles. However, it will be my endeavor to acquire knowledge in all lines of forestry, and my carnest effort to advance its interests wherever found practical.

It is quite clear to me that the primary object of the forest protection law is the prevention and suppression of forest fires, particularly in the forests of state, school and other granted lands-of which there are approximately 875,000 acres-also in a general way to co-operate with other forest protective agencies in controlling fires, preventing destruction of property, and patrolling the forested areas of the state. been the principal activity of this department. It is evident that the framers of this law contemplated a much wider range of activity. Section 2 makes it the duty of the Board to collect information regarding timber lands owned by the state. And again in the last paragraph of section 4, which authorizes this annual report, it makes it the duty of the Forester to gather data relative to the condition of all timber lands in the state; the amount of timber marketed or destroyed each year; to ascertain what state lands are suitable for growing timber, and also to investigate conditions of second growth timber with a view of reforestation. Little has been done in this direction except to gather information as to the quantities of all timber damaged or destroyed. The compiling of such data when reliably acquired would constitute an invaluable record.

A number of tables have been prepared depicting in classified form the important doings of the department.

Table No. 1 relates to finances and expenditures and shows the items of expense grouped under proper headings.

Table No. 2 shows the field expenses under appropriate headings, classified by counties. One-third of the total expense is returnable to the state treasury by the various counties.

Tables Nos. 3 and 4 show mainly the activities of our field forces, designated under various headings and also classified by counties. No. 3 is the fire table showing damage and losses. No. 4 shows permits, campsites, trails and arrests.

Table No. 5 shows in a more condensed form the finances and field activities since the organization of this department. It also shows the amounts expended by other co-operative agencies outside of the national forests. This table is classified by years and can be added to from year to year.

A few cuts of fire and forest views are included to add interest to the pamphlet.

#### PRELIMINARY WORK.

Upon assuming my duties I started on a tour of the timbered counties, meeting and making the acquaintance of many federal and association officers and rangers, also meeting and gaining acquaintance of as many as it was possible to reach of the county wardens, patrolmen and applicants for such situations; also, in a general way, getting in touch with the field duties and co-operative work.

I am very much indebted to Mr. G. C. Joy of the Washington Forest Fire Association, Mr. E. T. Allen of the Western Forestry and Conservation Association, Mr. George H. Cecil of the Federal Forest Service, and their co-workers for assistance and advice generally, and particularly in smoothing out the co-operative problems.

In making selection of wardens and patrolmen, due consideration was given previous service. No changes were made where satisfactory service had been rendered. Of the fifty-one patrol-

men employed in 1915, three were appointed county wardens, twenty-one were reappointed patrolmen, seven were denied appointment on account of unfavorable report of federal inspector, three were replaced with new men, two districts were discontinued and fifteen refused reappointment or failed to apply.

Of the forty-three wardens in 1915, twenty-one were reappointed, five were replaced with new men (three of whom had previously served the state or association), seven did not apply, and ten districts were discontinued, some of which would have been re-established had the season been dry enough to justify it.

Preference was given to property owners and settlers in or near their districts, who had telephone communication or would procure it, and effort was made to select active middle-aged men who had training in the forests and experience in fighting forest fires. Wardens were selected with the same consideration, preference being given efficient men who had automobiles or motorcycles.

They were furnished the usual supplies, blanks, laws, badges, etc., and little change was made in the instructions from those given in former years. However, they were particularly instructed that the entire time for which they claimed pay should be devoted wholly and conscientiously to the service of the state, and in furtherance of the work of this department; that there could be no divided time, such as working part of the day at home and patrolling only a few hours. Such service would not be tolerated and would result in dismissals whenever detected. This policy will be continued. Two dismissals were made in midsummer for such conduct.

They were also instructed to guard their expense carefully, and be cautious and not create needless expense to the state.

#### Table No. 1.

#### FINANCIAL STATEMENT-1916.

#### For Period from November 30, 1915, to December 1, 1916, Expenditures.

Salary, State Forester. Traveling expenses, State Forester. Traveling expenses, State Forester. Salary, office assistant. Salary, stenographer Salary, field assistant Traveling expenses, field assistant. General office expense. Phone, long distance, and telegraph service. Postage Office equipment Maps Printing Per diem, Fire Wardens. Expenses, Fire Wardens. Expenses, Free Wardens. Expenses, Federal Patrolmen. Expenses, Federal Patrolmen. Field equipment Trail work Labor on fires (\$251.50 incurred in 1915) Transportation, account of fires. Subsistence, account of fires.			\$1,720 26 \$180 91 \$10 85 1,483 33 452 50 267 81 63 99 123 45 126 90 288 10 16 00 445 70 12,219 98 2,026 83 4,726 50 1,775 90 83 50 1,775 90 83 50 112 61
Total			\$26,995 13
Appropriations, biennium 1915-16: Salary, State Forester	\$29,909 16	\$70,000 00 56,904 29	
Balance, December 11, 1916		18,095 71	\$70,000 00

Federal patrolmen are fire wardens employed on account of Weeks Law co-operative work with the Federal government. During the fire season of 1916, the Federal government paid the Federal patrolmen in the state service \$7,986.00, and the collaborator \$9.50, making a total of \$7,995.50.

Table No. 2. COUNTY EXPENSES, 1916.

	COUNTY	COUNTY WARDENS	FEDERAL PATROLMEN	SEAL	P P	,	II.	FIRE FIGHTING	NG	i ato E
COUNTY	Per Diem	Expenses	Per Diem	Expenses	Equipment	Work	Labor	Trans- portation	Sub- sistence	
Olaliam Clarke Cowiltz	9888 9888 8888 8888	25 25 25 25 25 25 25 25 25 25 25 25 25 2	\$219 82 50 878 00	22 22	8	00 084	\$607 25 6 00	00 818	77 768	\$1,928 47 516 96 935 03
Ferry Grays Harbor	888 888 888	<b>5 3 3</b>	51 00		2 60	99 99	8 88		*5 55	288 288
Jefferson King	8 5 2 8 3 5 2 8 3 5 2 8 8	8888	245 246 89		6 25		2.8 8.78			28.85 88.88 88.88
. E	8 8 8 8 8 8 8 8	120 78 120 70 120 70	591	8 5	28.8		::88	<b>9</b>		1. 28.082 28.12.88
Pacific Pierre Pend Orenie	85 88 88 88	<b>325</b> <b>525</b>	888	9	2 25		828 828	888	12 62	1,886 8 2,88 8 2,88
Skagft Skamenis Snohomish	1,187 880 880 880 880 880 880 880 880 880 8	888 888 888	251123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123 25123	989	10 20	S2 52	888 88 88 88 88 88 88	58 58 58		2,179,45 638,96 1,828,10
Stevens Spokane Spokane Thurston Wahkiakum	8866688 886688 88888	88888 84884	8:8:8			4 00	88 : i6			885 72 512 65 512 65 429 89 1,866 89
Totals	\$12,219 98	88 920'38	\$4,726 50	946 ±0	11 98\$	\$140 50	\$1,544 40	92 88 88	\$112 GI	\$8 986,02

• TW. Field equipment tools, with but two exceptions, are stored with the County Wardens.

#### FINANCIAL.

Table No. 1 of this report shows the expenditures of the department for the twelve months ending December 1, 1916, grouped for specific purposes. Also, the biennial appropriation for 1915-16, the total amount expended each year out of that appropriation, and the unexpended balance December 11, 1916, amounting to \$13,095.71. There will be paid out of this balance between now and the end of the biennium approximately \$3,000.00 for office and field equipment, salaries and printing, leaving a reversion to the treasury of over \$10,000. There will also be an additional sum of \$6,978.94 returnable to the state treasury from the timbered counties (see Table 2).

A comparison of the field expenses for the years 1915 and 1916 will show a higher cost per man for the season of 1916. There are two causes for this; first, the patrolmen were allowed a wage increase of \$15.00 per month over 1915, and the wardens were allowed about the same increase on their expense items; second, the unusual dry spell extending until about October 25th necessitated keeping some of the field force on duty fully a month longer than customary.

The items "salary, field assistant, \$353.00" and "traveling expense, field assistant, \$267.81," also "trail work, \$140.50" appear for the first time in the history of this department. Aside from these items and the items of "labor at fires" and attendant expenses, which are comparatively small, the other items of expenditures will be found to be normal.

Under this heading I will also call your attention to Table No. 5, being a grouping of expenditures, finances and statistical data tabulated from the reports, files and records of this office. It will be found valuable as a reference and for comparative purposes. It shows in totals and grand totals the amounts expended by the three agencies engaged in co-operative protection of forested areas outside the national forests; also showing growth, appropriations, damage, losses, etc. Much was lacking in the earlier history, but it will be our endeavor to obtain accurate information and add to this table from time to

time items of interest and importance, with a view of making it a valuable permanent record.

#### PUBLICITY.

In the month of March the then acting State Forester, W. B. Bailey, prepared and sent to the railway superintendents a circular letter requesting them to prepare for the coming fire season by clearing up their rights of way and co-operating with our wardens, in suppressing fires on or adjacent to their respective roads. Also a letter to the school superintendents of the forested counties, requesting that at the exercises conducted by the public schools on arbor day, the pupils' and parents' attention be called to the work of the department and the importance of preventing fires in our forests. About the same time press notices were given out warning the public to prepare for the coming dry season.

Cautionary notices were given to the press frequently during the dry season. Much good is accomplished in this way by frequently reminding the public of the importance of preventing fires and notifying forest officers when they occur. Credit is due the press for its help and willingness to keep the public constantly warned.

On May 1st, a letter was addressed to the boards of county commissioners, urging compliance with the law in the clearing of highways. Again, on May 15th, circular letters were sent to teachers and principals of public schools, urging their assistance in creating favorable sentiment among the pupils in relation to preventing fires, warning and cautioning them when camping, picnicking, berrying, or on outings during their vacation, to be ever mindful of the destructiveness of forest fires.

A circular letter addressed to campers and fishermen was widely circulated throughout the forest areas by all the forest officers and many other individuals and transportation companies.

The chief fire warden of the Washington Forest Fire Association furnished many moving picture houses with slides de-

picting the destructiveness of forest fires, with appropriate warnings and cautions. I consider this one of the very best methods of warning the public and creating wholesome sentiment against carelessness with fire.

#### WEATHER CONDITIONS.

The season of 1916 was most remarkable for unusual weather. With the exception of a week or ten days, from June 12th to 20th, and a like period in the latter part of August, the entire summer months were cold and rainy. The usual equinoctial storms in September did not develop, but there were numerous showers and light rains during the early part of September, covering most of the forested area of western Washington. There were a few light rains about the same time in the forests of northeastern Washington, and in the southern portion along the Columbia river.

Commencing about September 10th and continuing until October 27th, dry weather ensued with but few exceptions over the entire state, making it necessary to keep on a portion of the force much longer than usual. This was particularly the case along the Columbia river, Hoods canal and the Straits of Juan de Fuca.

#### LEGISLATION.

Paragraph 3 of section 7 and paragraph 4 of section 9, chapter 125, Laws of 1911, relating to compensation of men employed to extinguish forest fires, should be amended to permit their wage to be fixed from time to time by the State Forest Board.

This department has experienced much difficulty during the past season in securing men to fight fires at the rate provided in the aforesaid paragraphs, to-wit, 25 cents per hour. Probably at the time of passage of this law, 25 cents per hour was fair compensation. However, the generally increased wage this season, with the probability in view that wages will be still higher another season, also the fact that it has handicapped our wardens in securing needed assistance, prompts me in rec-

ommending an amendment that will authorize the Board to fix the compensation in accordance with going wages for like work.

Experience this season emphasizes the necessity of amending section 16 of the aforesaid laws, so that in addition to clearing rights of way for railroads and wagon roads it will also require the clearing and burning of all refuse timber, brush and debris on rights of way for canals, ditches, pipe or wire lines, in fact, any and all rights of way, except those for and within logging operations; and that the owners of any improperly cleared right of way should be held responsible and required to clear and burn in accordance with law, with a good heavy penalty for failure to do so.

There is urgent need of laws requiring all owners of forest lands to either provide satisfactory and efficient patrol therefor or contribute their pro rata towards the maintenance of the state or private organizations engaged in the prevention of forest fires and the protection of forested lands.

There is also need of legislation requiring annual disposal of forest slashing and waste created by logging or other forest operations.

The accumulating area of such slashing is a growing nuisance and menace to the remaining forests and other intermingling property, and unless abated will some day surely cause great forest losses.

#### FOREST FIRES AND LOSSES.

Table No. 3 of this report shows the number of accidental fires, with the approximate loss and damage resulting therefrom, in each of the counties where wardens or patrolmen are employed. It is compiled largely from information received from the reports of men in the field, and while the figures of losses and damage are purely approximate, I believe they are substantially correct and can be relied upon as conservative.

At the time of preparing this table the complete statistics of Clallam county losses were not available. It is anticipated that final reports will show timber loss and damage greatly in excess of these figures.

The forest fire season opened in the northern counties the last week of May, requiring the attention of some of the field force. No loss of consequence resulted, but much good was accomplished in disposing of some large areas of loggers' slashing. About two weeks later, following several warm, dry days, numerous fires occurred throughout western Washington, mostly in logging works, resulting in some quite serious losses to logging operators. Only two of these fires caused noteworthy loss to standing timber, one in Pacific county killing 2,000,000 feet and destroying 1,000,000 feet, board measure, of standing timber, and the other on the Hoh river, in western Jefferson county, destroying about 4,000,000 feet of large, mature spruce timber on state land.

From June 21st to August 22d no fires of importance occurred. The weather continuing cool, with frequent light rains, kept the forests damp. Another dry period in the latter part of August developed some fires. All were kept under control with no loss to standing timber. The most serious fires during this period were in Spokane, King, Lewis, Grays Harbor and Snohomish counties; losses were principally confined to logging operations.

The next fire of note occurred in Skamania county, September 14, destroying camp property, logs and timber of the J. K. Lumber Company, and burning over about 700 acres of second growth timber.

The most destructive fire of the year, in fact, among the few serious fires in the history of Washington, occurred in Clallam county, September 20th. It originated in the works of the Puget Sound Mills and Timber Company, caused by sparks from a railway locomotive engaged in hauling logs. It burned moderately until September 27th when a brisk wind rapidly spread the fire over nearly their entire works, and drove it into adjoining standing timber, imperiling lives of workmen and destroying one entire camp, including buildings, stores and equipment of all kinds, besides damaging or destroying bridges, railway track, cars, logging donkeys, cables, tools, and many mil-

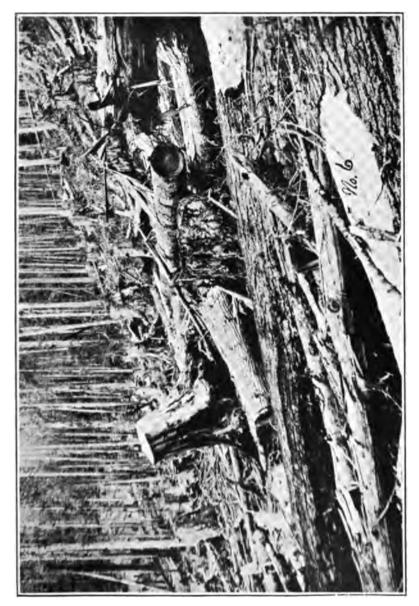
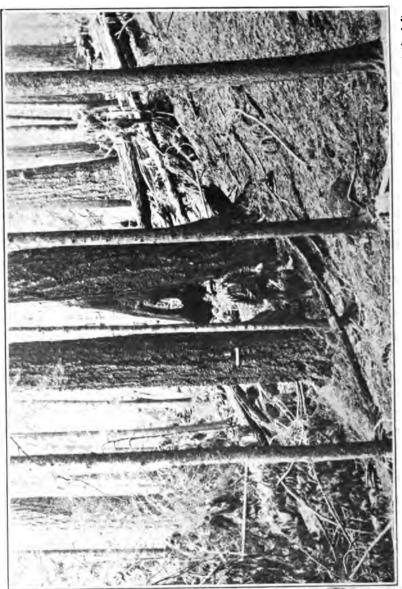


Fig. 4. An illustrated argument for providing some kind of fire guard where vast quantities of logging waste is left adjacent to green timber.



Note barrenness in foreground at the right and fallen timber at the left and in background. A view of fire-swept green timber. F16. 5.

lion feet of sawlogs in the woods, also damaging or destroying hundreds of acres of green timber. The fire burned over some 7,000 acres, about 3,200 of which was green standing timber largely owned by the company, but which is intermingled with some state and federal forest lands. This was a ground fire, and the area of state timber burned is about 400 acres, the loss and damage to which is now being carefully estimated and determined.

It became necessary to establish fire fighting camps west of Piedmont, on Boundary creek. Several miles of fire guard were constructed, thus finally heading off the fire and preventing its further spread into valuable state and federal timber. The state and federal forest service co-operated in this work.

This fire, in particular, with all its attendant circumstances, emphasizes most forcibly the growing necessity for some well-formed plan for the annual burning of forest waste, in seasonable time and with well-planned protective preparations. Loggers and lumbermen should learn to figure the cost of annual disposal of logging waste as a fixed operating charge of primary importance. When this is done by all forest operators such losses as described above will be reduced to a minimum. Had this company made a few well-planned preparations, then fired their entire works in favorable weather, the loss could be shown in four figures instead of six.

Our attention was directed by the federal service to numerous fires originating adjacent to and on the Northern Pacific railway's mountain division. A letter was addressed to this company calling attention to the law on locomotive screens and ash pans, and if their locomotives caused fires to patrol that section of their road.

### ROAD CLEARING AND SLASH BURNING.

This department has been active in the enforcement of law relative to clearing of rights of way and the disposal of fire risks. The field forces have rendered assistance to public authorities as well as private parties, and we have been ably assisted by both the Washington Forest Fire Association and the Federal Forest Service in furtherance of this work.

In accord with your resolution of August 7th, in relation to disposal of inflammable debris adjacent to public highways, circular letters were sent to the wardens, with form of notice to be served on land owners. Reports from them indicate that such notice was served wherever fire risks were discovered and owners could be found. This activity resulted in the disposal of many hazardous accumulations of forest waste.

During the summer months, in company with other forest officers, I made a tour of many highways, inspecting faulty clearing and effecting disposal of it. In a few cases arrangements were made to appoint a suitable man to supervise the clearing at the contractor's expense.

About September 10th and following some light showers which made burning quite safe, another circular letter was forwarded to the field force, instructing them to urge all public authorities, private persons and contractors to clear up forest waste accumulated from clearing of right of way. Also, that whenever was found any hazardous forest waste that in their opinion could be disposed of with reasonable safety they should urge the owner, tenant, logger, contractor or public authorities, as the case might be, to burn or otherwise dispose of it, and when not otherwise engaged to assist them in so doing. Much good was accomplished by these efforts; thousands of acres of forest waste was burned with slight loss to adjacent timber or other property.

The state highway commissioner and many boards of county commissioners and engineers heartily co-operated with us in the enforcement of the law. However, authorities in some counties are neglectful and indifferent, permitting contractors or supervisors to leave unburned on the highways great piles of debris that, when thoroughly dry, create very dangerous risks to adjacent timber or other property.

It has been the practice of some contractors to log up great piles of timber and rubbish along roadsides, often piled up

against valuable standing timber in such manner that it is impossible to burn without destroying the trees, and with great risk of starting crown fires. There are instances where contractors have had permission to pile waste and fell trees on private property adjoining right of way. This should not be permitted, for the hazard is as great off the right of way as on, unless removed to a point where it cannot communicate with other property when fired. There are numerous instances throughout the state where expensive and destructive fires have originated from waste materials from road clearing.

This department desires to minimize such hazards and earnestly requests the co-operation of all officials dealing with this subject. The law is too plain to be misunderstood, section 16 reading as follows:

"Every one clearing right-of-way for railroad, wagon road, or other road, shall pile and burn on such right-of-way, all refuse timber, slashings, choppings and brush cut thereon, as rapidly as the clearing or cutting progresses, and the weather conditions permit, or at such other times as the forester, or of any of his assistants, or any warden may direct, and before doing so shall obtain a permit."

There is more work to be done and much room for improvement in the clearing of rights of way in many of the timbered counties. This work is often in progress during seasons when burning is either impracticable or impossible. Frequently, contractors are through and gone before our force is in the field and the burning of waste can be done with safety. There should be a law requiring authorities, in such cases, to withhold sufficient funds to insure the disposal of the waste when weather permits. We have not insisted on strict compliance of the law where right of way is being cleared through slashing or logging works, but we have insisted on all the waste material, limbs, tops and brush being piled and burned on the right of way wherever it passes through or is contiguous to unlogged, partially logged or young growth timber.

### IMPROVEMENTS.

Under your direction I have purchased an adding machine, numbering machine, typewriter desk, and an automobile for the

field work next season. I have also purchased a set of metal filing cases, and will rearrange and systematize the filing of reports, documents and other papers of the office. I am also contemplating some improvement in the forms and blanks heretofore in use, all of which will be submitted for your approval at a later date.

### LAW VIOLATIONS.

Decrease in wilful violations of the law has been very noticeable. Only three arrests were reported this season, all for burning without permit (see Table No. 4). This can be attributed largely to vigorous enforcement of the law by my predecessors, followed by a policy of conciliation, co-operation and good will among the rural communities.

Wardens are instructed to promote friendly sentiment by fair and impartial conduct, soliciting co-operation in fire prevention and assisting settlers and loggers in slash burning. It is gratifying to note that hostility to the forest service is rapidly decreasing.

### TRESPASS.

Seven cases of trespass on state lands were reported by our wardens, patrolmen, and association rangers. One from Stevens county, of trespassers cutting wood and posts; one from King, cutting cedar bolts on section 14, township 25 north, range 7 east; one from Grays Harbor, cutting a tree for donkey engine sled; one from Cowlitz, gathering cascara bark, sections 22 and 26, township 7 north, range 1 east; one from Skagit, cutting cedar tree, section 11, township 36 north, range 8 east; one from Kitsap, cutting trees along road in section 36, township 25 north, range 1 east, and one in Pierce county, of road contractor destroying timber in section 24, township 19 north, range 9 east.

All these cases were reported and referred to State Land Commissioner Savidge for further investigation and settlement of losses.



Fig. 2. Shows man reaching the top of stub by the use of a vine maple hoop and telephone climbers. This stub is nine feet in diameter and forty feet high.

Forest scenes illustrating novel methods employed by federal and state men, assisted by settlers, in extinguishing fire in burning trees and stubs.



Fig. 3. Shows man in limbs ninety-five feet from ground. He is partially obscured by smoke. See arrow. His position was reached by felling an alder tree into the burning spruce, then ascending it. From his position thus gained water was elevated and the fire extinguished.

Over 60 trees from 6 to 9 feet in diameter were climbed and fires put out with water, besides 30 trees up to 6 feet in diameter were cut down.

These views were obtained by U. S. District Ranger Chris Morganroth, and are published by courtesy of the Federal Forest Service.

### CO-OPERATION.

The co-operative work in the field was most agreeable and satisfactory from every standpoint. The state and federal service, assisted by settlers, co-operated and divided the cost of suppressing forest fire in western Jefferson county, where state, federal and private lands intermingled. And again in Clallam county, assisted by the Washington Forest Fire Association, they co-operated in holding in check two of the worst fires of the season.

The association inspectors and rangers rendered efficient service throughout their co-operative territory. They were instructed by their chief fire warden to protect state timber within their districts with the same care as private timber and to report trespass to the proper officers.

With a view to harmonious and concerted action, all of the field force representing the three agencies were instructed to consult, advise and assist each other in times of fire or other trouble.

A misunderstanding of the co-operative agreement, relating to the ratio of disbursement of the Weeks Law allotment, delayed settlement of our July payroll of Weeks Law patrolmen. However, this was later adjusted by a modification of the agreement, the terms of which were all that could be desired.

The United States rural mail carriers were instructed to get in touch with fire wardens and forest officials and report to them any fires starting along the rural mail routes.

The franking privilege was extended to the Collaborator and Weeks Law patrolmen, and blank envelopes and stationery was furnished for use in strictly federal business.

Table No. 3.

# REPORT OF STATE FORESTER.

1916 FORET FIRES, OUTSIDE OF NATIONAL FORESTS, REPORTED BY STATE WARDENS AND ASSOCIATION RANGERS.

		, constant	ACREAGE	DAMAGED	STANDING	AOREAGE DAMAGED STANDING MERCHANTABLE TIMBER	3LE TIMBER		LOSSES	
COUNTY	Forest Fires Listed	Fires Extin-	Green Timber	Second Growth	M. feet, b. m., Killed	M. feet, b.m., Destroyed	Value Stumpage Destroyed	Value Logs	Value Improverments	Value Camp Equipment
Clallam	8		3,260	08°	15,800	2,500	\$7,800	\$6,000	\$12,000	\$80,000
Cowlitz	20	<b>*</b> 60		N				1,154		
Grays Harbor	<u> </u>	60			8		S	2,500	1,000	23
Island King	9 51 <b>83</b> rc	23	38	25	255 155 156	240 810	780 240	<b>06</b>		4,000
Klickitat Lewis	. <b>.</b> 8	17	Gs.	02	222	100	200	8,500		002
Masson Pacific Pierre	5 00 82 a	16	170		2,200	1,025	2,050 180		25	ន
Skagit	- <b>8</b>	60	8	008	008	908	000	1,880	15,000	500
Snobomish Stevens Snokene	<b>8</b> € €	-	5.81 <b>2</b>	8	88 01	750	1,500	1,770	8	
			8	£		100	500	2,250	88	3,000
Totals	268	38	4,480	1,867	18,600	5,885	\$14,000	9696, 540	\$29,825	\$29,000

The 258 forest fires were classified as follows: Railroads, 6; lumbering, 96; brush burning, 60; campers, 12; incendiary, 4; unknown, 67; and miscellaneous, 8. In addition to the number of forest fires reported, there were 68 camp fires extinguished.

Table No. 4.

and Acreage Listed for Burning, Areas Burned for coldental Fires. Camp Sites and Trails Constructed and Opened Up by State Wardens and Association Rangers. Violations of Forest Laws Reported. Forest Protection, and Logged-Off Lands Burned Over by Accidental Fires. Permits Issued by State, Association and U.

	Virmber	NUMBER	NUMBER OF ACRES LISTED	LISTED	Wiimber	Number	Arrests for Burning	r Burning
COUNTY	Permits Issued	Agricul- tural	Forest Protection	Logged-off Lands	Oamp Sites	Miles	Amount of Fine	Amount of Costs
Clallam	282	1,580	2,480	2,780	-	8		
Clarke	2	8,201		8	•	9		
COWILE	ZZ 1	3,738	1,740	8	<b>3</b>	23		\$12 GO
Fury	5	8			-		***************************************	
Grays Harbor	8	92.	1,680	5,640	<b>85</b>	7.7	:	
pugier	<b>6</b>	3		8	:::::::::::::::::::::::::::::::::::::::		•	
Jefferson	\$	818	8	275		:::::::::::::::::::::::::::::::::::::::		
King	88	8,117	2,180	25	6	\$	• • • • • • • • • • • • • • • • • • • •	
Kitsap	168	<b>3</b>	1.65	210				
Klickitat	<b>.</b>	1.069	8	1.188				8
	786	10.811	2.650	9. 197	12	87		
	200	1.012	026	1.487	1	•		
	2	9 116	5	5	•	۶		
Diame	278	900	8 6	200	*	28		:
Dand Onether	<b>5</b> 3	900	36	96	3	3	:	
Trend Oreline	5	880,5	3 5	200	;		:	
	81	9,800	¥,	8,5	=°	\$:	:::::::::::::::::::::::::::::::::::::::	
	8	10.		200	101	⊒ .		
Shonomish	1,815	27.	3	2,20	۵	•	3	2 2
Stevens	183	2,685	8	2	_	=		
Spokane		10,478			:::::::::::::::::::::::::::::::::::::::			
Thurston	200	4,560	678	1,415	4		•	
Wahitlakum	<b>33</b>	2	200	8	:::::::::::::::::::::::::::::::::::::::	83		•
Whateom	999	5,004	<b>9</b> 8	983	7	88		
Chelan	<b>\$</b>	7,0,1						
Kittitas	₹	63						
Okanogan	61	8				:		
,								
Totals	10,088	386,	27,877	41,862	117	8	8	<b>\$16</b> 35

### FIELD WORK AND ITS LESSONS.

This season has been exceptional in many respects, and has demonstrated the futility of fixing, either by law or rule, the season when the field work should be conducted; and also the futility of fixing a definite appropriation for carrying out this work. The appropriations should be liberal, unless the limits be so broadened as to provide for any contingency that might arise. The time to commence work and the time to quit must be governed wholly by seasonal conditions. This is the policy pursued by the association and it is the correct policy.

The present laws fix the date of closed season as June 1st to October 1st, and requires wardens to be then on duty to issue burning permits. This provision should be broadened a month, or two months, to cover reasonable possibilities. The time of beginning and terminating the field work should be left to the judgment of the State Forest Board, and Forester.

A few years ago the most destructive fires of the season occurred early in May, and this year the worst fires occurred during the closing days of the season and continued as late as October 25th.

With few exceptions the field work commenced June 1st by the wardens going on duty, followed about two weeks later by the patrolmen, which was timely, as many serious fires started up about June 18th and continued for a week or ten days.

### MEETINGS.

By arrangement with the Washington Forest Fire Association and the Federal Forest Service, a series of meetings were announced to be held throughout the forested counties of the state as follows: June 14th at Montesano, 15th at Centralia, 16th at Mineral, 17th at Buckley, 19th at North Bend, 20th at Sultan and Hamilton, 21st at Deming and Arlington, 23d at Kelso, 24th at Yacolt, 26th at Northport, July 12th at Port Angeles, July 18th at Forks, and July 24th at Shelton. The conduct of these meetings being new to your Forester, they were

largely conducted by G. C. Joy of the association, assisted by E. J. Fenby, federal inspector of Weeks Law patrolmen.

All of these meetings held in the co-operative territory were well attended by the state and association men, and most of them had representatives from the federal service. A better attendance by the federal officers and rangers another year is desired.

These meetings are very essential for the proper organization of the co-operative work and should be participated in by all agencies interested in patrol and protection of the forests. Special mention is due Forest Supervisor R. L. Fromme, his assistants and rangers for their active interests at the Montesano, Port Angeles, Forks and Shelton meetings. Also, mention should be made of the attendance of four men engaged in private patrol of the J. D. Lacey Company's timber. This is a step in the right direction. All private parties maintaining patrol should instruct their men to attend these meetings. Thus is practical organization perfected and true co-operation accomplished.

Representatives of the state game and fish commission were in attendance at nearly all of these meetings to discuss the advisability of close co-operation of the forest and game departments. There appeared to be quite favorable sentiment to such a union at a few meetings, but generally it was strongly opposed, and particularly by the association men.

Your Forester attended all of the meetings but two, those at Hamilton and Deming, which were conducted by Mr. Joy and Mr. Fenby, while Mr. Wm. Entwistle, chief inspector for the association, and myself conducted meetings on the same dates at Sultan and Arlington.

These meetings were informal and those in attendance were encouraged to feel at ease, ask questions concerning their duties, make known their troubles and take part in discussions, get acquainted with each other and arrange the boundaries of their districts for convenience of patrol. I take the liberty of quoting from Inspector Fenby's report the following:

"These meetings were attended by the local forces of the state, association and forest service, and were a great benefit in promoting closer co-operation, avoiding duplication of work, settling points of law upon which the men were in doubt and giving more specific instructions to govern local conditions. All men whose territories lie along the boundaries of national forests, where there are adjacent outside patrol districts, should be in attendance, also a representative from the supervisor's office, so that arrangements for their mutual benefit can be agreed upon. The only way to perfect the co-operation between the forest service with the state and association, is by acquainting the local forces with one another."

A circular letter originating from the Forest Service, Washington, D. C., placing a ban on any form of political activity by Weeks Law patrolmen and Collaborator, was forwarded to all patrolmen and was read at all of the meetings.

### SPECIAL MENTION.

Considering that the northeastern counties have been visited but few times by either state or federal forest officials, and that consequently they have had to work out their own problems largely unassisted, I feel they are entitled to special mention for their efficient work and the careful manner in which state timber and funds have been guarded.

During rainy spells when patrol was unnecessary the field men engaged in improvement work, such as preparing camp sites in safe, suitable places, building trails and short-cuts through the woods for use in case of fires. Also, posting cautionary signs and notices, advising with settlers, loggers and road contractors concerning slash burning and in creating favorable sentiment. Some of these activities are shown in Table No. 4. Noteworthy mention should be made of good work done during such weather by Association Inspector E. C. Merrifield, and Warden N. N. Baxter in Snohomish county, by gathering their rangers and patrolmen, establishing a camp and constructing a fire guard around a dangerous logging slash. This was later burned without loss to surrounding green timber. They should also be complimented for successful adjustment of a fire loss claim, by co-operating with county officials. The cost was put on the contractor responsible for the fire without cost to the association or state. Without further special mention it should be said that the field men generally throughout the state rendered faithful and efficient service and are entitled to the thanks of this department.

### AUTOMOBILES AND AEROPLANES.

Mention should be made of the growing need and use of automobiles in fire protective work. There is no longer any doubt of the increased efficiency by the use of them, particularly in counties having a fairly good system of roads.

Since 1913 the use of cars as a means of travel by our wardens has doubled each succeeding year, there being eighteen in use in 1916 (sixteen autos and two cycles). The association has also about doubled in the use of cars and expect to add more another season. The federal service is also using cars, but owing to the unimproved and mountainous character of the national forests makes the use of cars impractical in most of their territory. A motor boat patrol is maintained by both the federal service and the association, making alternate trips along Hoods Canal and tributary waters.

A man with an automobile can patrol fully twice as much territory as a man with horse, and three or four times as much as a man on foot.

The importance of reaching a fire quickly with men and tools is unquestionable. The automobile facilitates this.

A reference to Table No. 5, under heading "Men Employed" and heading "Expense Wardens," etc., will demonstrate that the expense of this department has rather been decreased than increased since the advent of cars. However, 1915 should be explained, as it was the policy of the board that year to pay increased salary with only nominal expense allowance. A more liberal allowance for expenses was made this season and many wardens were employed fully a month longer than usual.

	Class	ified Sum	ımary of	Finances	and Wor	Classified Summary of Finances and Work of Forest Protection from Its Organization to Date.	at Protec	tion from	Its Orga	nization (	o Date.	
YEAR	Office Expenditures, Salaries, Printing and Equipment	Per Diem Wardens and Field Assistant	Expenses Wardens and Field Assistant	Extra Help Reks Law ans ing and Patcol State Work State	Weeks Law Patrol Paid by State	Total tate Ex- enditures	Total Expended by Wash. F. F. Association	Total Expended by Fed. Gov. Weeks Law Patrol	Grand Total Expended by Three Agencies	Federal Allotment Weeks Law Patrol	State Biennial Appro- priation	Unex- pended Appro- priation
1906.	1,907			: 9		\$5,426 47 13,961 80			\$6,426 47 18.961 80		00 009'14	
1907	2,197			23.8		9,454,95	100		4		00 000 98	<b>\$2,</b> 819 96
1909	3,216			98,98		19,509	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		18		46,200 00	25 65
: :	4,336			17,442 11	190 80		3.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	8	183		78,000 00	14,572 14
: :	4,765			2 75 8 2 75 8 2 75 8			12 12 12 12 12 12 12 12 12 12 12 12 12 1	7.4.7 88.8	88	96,98	76,000 00	20,651 51
1915		12,989 44 12,571 98	2,294 64	2,148 62 2,148 62	24,4, 25,25, 25,25,25,25,25,25,25,25,25,25,25,25,25,2	81,779 48 86,996 18	28,28 28,28 28,28 28,28	7.7. 2.68 5.73 5.73	38,282,38 38,731,46	888 888	70,000 00	18,006 71
Totals.	\$43,630 96	\$97,985 60	\$24,654 77	\$81,294 58	\$15,222 81	\$202,789 26	9400,885 74 \$80,684 00	00 789'08\$	\$608,858 00	\$45,259 00	9801,700 00	\$61,164 97

	MEN	MEN EMPLOYED	YED	Number	A mount	Number	Nimber	Total			Members	Merchant-	Number	Number
YEAR	State War- dens	W. F. F. A. Rangers	Weeks Law Patrol- men	of Arrests	of Fines and Costs	Burning Permits Issued	of Fires Without Permits	Burned, All Fires, Acres	Damage, Mostly Timber	provem'nts and Logging Equipment	able Timber Killed Board Feet	Timber Destroyed Board Feet	Sites Pre- pared	of Trail Built or Opened
1906	នានា		60	8		2,542	1,100	107.740	9854, 480 00					
1907			_			1.488	53	10,620	90 000,150					
1908.		8	<del>-</del>	:		1,845	\$	21,018	08,800 00	:			:	:::::::::::::::::::::::::::::::::::::::
1906		ß	:	_ 옮		2,887		18,696	27,996 00		80,000,000	18,960,000		:::::::::::::::::::::::::::::::::::::::
1910		76	:	88		2,188	884	106,507			88,500,000	6,450,000		: : : : :
1911		88		Z'	1,291 00	5,972	184	118,17	28,180 00	:::::::::::::::::::::::::::::::::::::::	00,00	11,000,000	:::::::::::::::::::::::::::::::::::::::	
1912		S 65	<b>3 5</b>	<b>.</b> «		20,00	989	121,980	88 88		1,000,000	200,000		
1914		8	\$ 4	8	•••	12.44	8	200,366	86,283 00		26,850,000	18,141,600		: : : :
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Totals	888	27.	813	180	1	732,17	6,618	1	9645,510 00	985,874 00	000,086,000	77,900,500	117	880

I would recommend a further increase in expense allowance another season, as the maximum allowance for expense of operating cars did not cover our wardens' actual expense no matter how careful and economical they were; besides, it creates a tendency to neglect their duties.

The use of aeroplanes for patrol has been investigated by your secretary, and from all the information at hand I would pronounce it impractical of adoption at this time. Wisconsin reports quite successful experiments with a hydro-aeroplane over a comparatively level country dotted with numerous lakes. The initial cost is \$8,000.00 to \$10,000.00, with a monthly operating expense of about \$500.00, based on two-hour trips each day of about 150 miles. At best such service would be useful only as a lookout and for reporting approximate location of fires. Our present troubles are not so much in detecting a fire as in getting men and tools to it quickly. It is quite possible that future developments of the flying machine may demonstrate its usefulness in fire protection.

### FOREST ASSISTANT.

In accord with your order of May 4th last, C. P. Roundtree was appointed to assist in the supervision of the field work. He was allotted the southwestern counties, including Pierce county. It was his duty to visit the wardens and patrolmen, to assist and advise them, and report unsatisfactory work to this office. He covered his territory frequently and satisfactorily, reporting weekly, and a brief report of his work at the end of the season. This being a season of minimum fires, his service in this capacity was not as valuable as it otherwise might have been.

I recognize the importance of a few thoroughly experienced men, whom I can send out to assist their co-workers in times of serious trouble, but I question the necessity or advisability of keeping them wholly employed in a supervisory capacity. The association has several men who act in like capacity and the federal government has an inspector for Weeks Law patrolmen, besides there is the chief fire warden of the association and myself; therefore, taking the co-operative force as a whole, I feel there is abundance of supervision and inspection. I do not wish to be understood as criticising the organization of the association; on the contrary, I think it is commendable; at the same time, there is no doubt that an economic saving could be made and much duplication avoided by an arrangement whereby one inspector or warden could have supervision and direction of all the co-operative force in his district and be jointly responsible to both the association and state. We had similar arrangement in Whatcom county this year which proved satisfactory. I think such a plan could be worked out with the association authorities and would agreeably apply in some other counties. The supervisory force should be distributed uniformly throughout the co-operative territory.

If the law being recommended for passage is enacted, then the field force will be instructed to guard all the forests alike and a much closer, more economical and efficient organization will be effected.

### RECOMMENDATIONS.

The forest fire service should be equipped with camp outfits, located at convenient, central points, for emergency use in event of fires remote from settlements. Our experience in checking the forest fire west of Piedmont emphasized the need of such equipment; in this case the federal forest service loaned us one of their outfits, otherwise there would have been delay in checking the fire.

We should advocate extending the opening of hunting season for all forest game until such time as the forests are thoroughly rain soaked. Many destructive fires have been caused by careless hunters. Table No. 3 shows twelve fires were started by campers and hunters, three of which are known to have burned large areas and caused great timber loss.

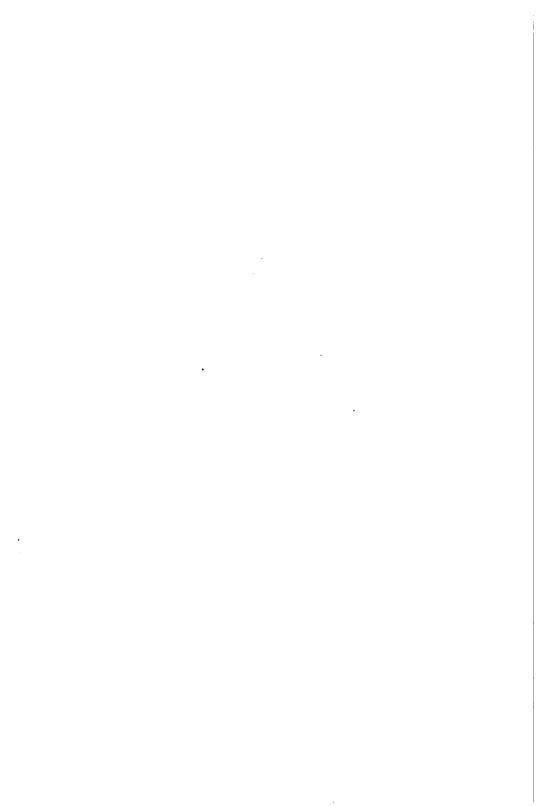
I recommend furnishing all the co-operative field force with blanks for reporting forest fires and losses, also that each warden, ranger or patrolman be instructed to confine their reports of fires occurring within their respective districts.

Encouragement and assistance should be given settlers in extending telephone communication to localities where there are large tracts of state timber lands. The importance of this is in gaining quick information of fires in remote settlements. A case in point is western Jefferson and Clallam counties; also the upper reaches of the Toutle river in Cowlitz county.

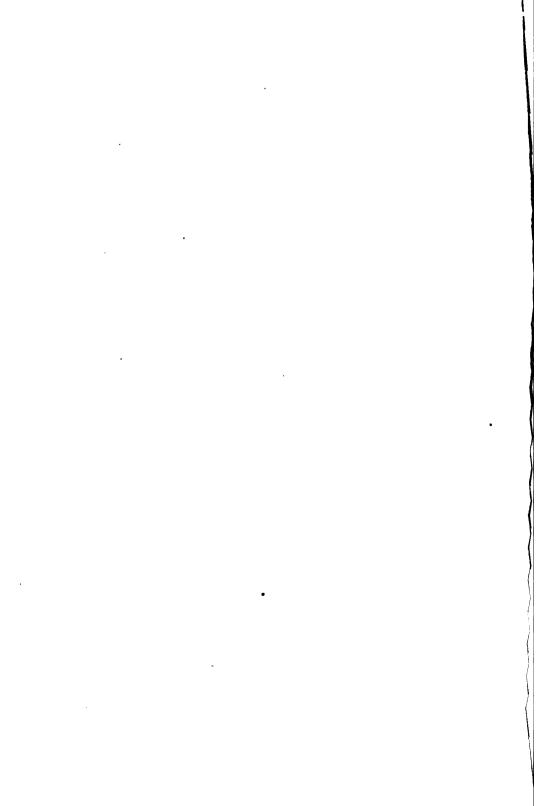
### CONCLUSION.

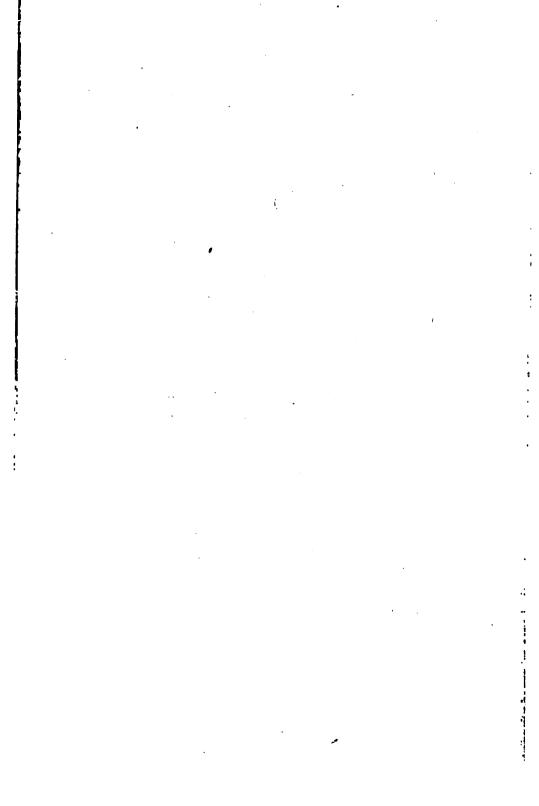
To the State Board of Forest Commissioners, I extend my sincere thanks for kindly advice and generous gift of time in promoting the best interests of the department, and I also extend my thanks to the office force for conscientious and painstaking effort in the discharge of their duties.

FRED E. PAPE, State Forester.



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# The Biennial Report

OF THE

# Board of Geological Survey

OF THE

State of Washington

FOR THE TERM 1915-1917



### LETTER OF TRANSMITTAL.

### To the Legislature of the State of Washington:

The Board of Geological Survey transmits herewith its biennial report for the term 1915-17, as required by statute.

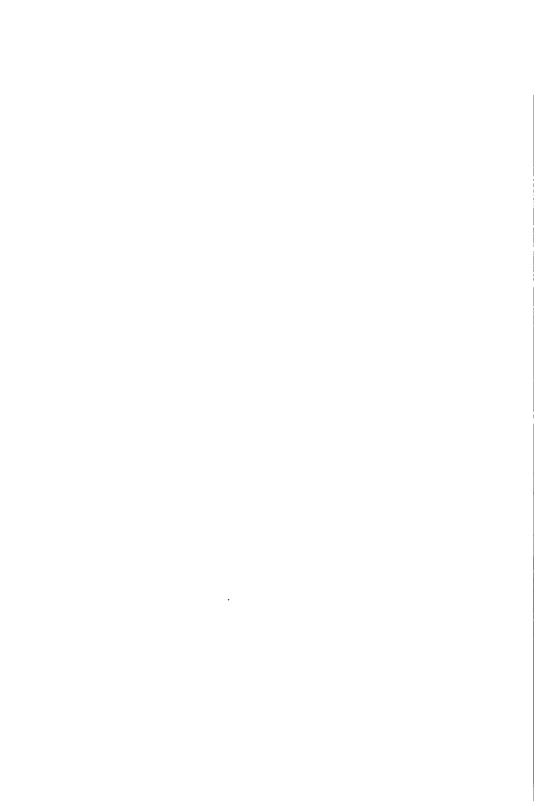
Respectfully submitted,

ERNEST LISTER, President; LOUIS F. HART, EDWARD MEATH, Secretary; HENRY SUZZALLO, ERNEST O. HOLLAND.

Olympia, December 28, 1916.

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### BIENNIAL REPORT OF THE BOARD OF GEOLOGICAL SURVEY

### GENERAL PURPOSES OF SURVEYS.

### TOPOGRAPHIC SURVEYS.

The Topographic Map.—A topographic map is designed to represent the form and slope of the surface of the land and the elevation of all points above sea level. The positions of streams, lakes and ponds, public and private roads, towns and railroads, are shown in their correct relative positions. The map indicates boundaries of counties and the position of section lines wherever there have been land surveys. In the making of the necessary surveys for such maps permanent marks, consisting of iron posts, copper bolts or tablets, are set at frequent intervals to mark the exact elevation above sea level to serve as datum points for further spirit level work, for engineering investigation, and for such public works as canals, water supply, railway and other public or private surveys.

The topographic map is made with such accuracy and in such detail that it is useful to almost every citizen. In a new state that is inviting immigration, the map is valuable in order to show the location of desirable farm lands and the general character of the country. From it the positions of streams and lakes may be seen and the possibilities of these for purposes of water power or irrigation may be largely determined. The topographic map facilitates the construction of railroads and wagon roads, since upon it available routes and grades may be laid out without the preliminary surveys ordinarily necessary for improvements of this kind. In our public schools such a map is indispensable in that it places before the children truthful maps of our commonwealth, instead of those that are glaringly inaccurate.

In the making of topographic maps the areas selected for survey are defined by lines of latitude and longitude and are called quadrangles. Each quadrangle, and the topographic map which represents its features, is designated by the name of the most prominent place or topographic feature included within it. The scale generally used in map construction is about two miles to the inch, and on this scale the area embraced in a quadrangle is about eight hundred square miles. In Washington, the topographic map when completed will comprise, in round numbers, ninety sheets, complete and fractional, of which about thirty-eight have already been surveyed.

### HYDROMETRIC SURVEYS.

Hydrometric surveys furnish a basis for determining the water resources of the state. They are essential to indicate the supply of water suitable for domestic and industrial purposes, for comprehensive development of power and irrigation projects, for navigation and flood prevention, and for wise and equitable sanitary regulation. The water supply is of more importance to the life and pursuits of the people than any other natural resource, as the health and economic development of every community are directly dependent upon the character and volume of the available supply.

Our water resources are unlike the other mineral resources in that they are continually existent. Our coal beds and mineral lodes are exhausted when mined and placed upon the market, but the water supply is constantly renewed. Therefore, failure to put water into beneficial use is an economic loss, for the energy and utility does not serve the needs of civilization effectively prior to hydraulic development.

When estimates and designs for hydraulic development are made, all essential physical details, except the stream flow, can be determined within a relatively short time. The amount of water available and its seasonal distribution can be ascertained only by a study of stream flow records extending over a series of years. Many irrigation and power projects have failed on account of being placed in operation without an adequate knowledge of stream flow. Others designed upon the basis of short time records have levied an enormous toll upon the public

through high rates made necessary by unexpected seasonal variation in flow. The run-off for streams in Washington is extremely irregular, especially in respect to the minimum flow which is the most important in considering the operation of any project. For instance, the low water period in August and September of 1915 was much lower than any other on record, likewise the lowest period in 1916 occurred in October and November, when the flow was nearly as low as in August and September, 1915, but was later in the season than shown by any previous records. Aside from the design and operation of irrigation and power projects, stream flow records are vitally essential in considering means of preventing damage from floods. Occasionally "Chinook" winds accompanied by heavy rains melt the snow in the mountains, causing disastrous floods in the lowlands. The last serious flood of this kind occurred in 1906. Unfortunately few records of stream flow were being kept then, so that very meager information is available for designing protective works, although more complete records on streams flooded less seriously in 1909 are very useful.

Hydrometric surveys cover two fields of investigation, the surface supply and the underground supply. The surface supply furnishes by far the greatest volume of water and is readily accessible in the various rivers and creeks. Gaging stations are maintained along the principal streams of the state for determining the daily flow throughout a series of years. Daily records are published and are used extensively in designing hydraulic works of all kinds. Probably the greatest ultimate benefit derived from the streams in the state will be brought about by hydro-electric development. Washington ranks first among the states in the union in respect to estimated potential water-power.*

^{*} A report of the Commissioner of Corporations for March 14, 1912, pp. 55-56, summarizes the potential water power in each state. Washington is credited with a "minimum" potential water power of more than a million horsepower greater than for any other state. The three states having the greatest "minimum" potential water power are as follows: Washington, 4,932,000 horsepower; California, 3,424,000 horsepower; and Oregon, 3,148,000 horsepower.

The possibilities for water power development are being investigated as rapidly as possible. The records of flow indicate water supply. River profiles or level lines along the principal power streams indicate the fall, dam sites, reservoir sites, and other pertinent data. An analysis of the information is being made in a series of seven reports on the water powers of the Cascade Range, three of which are published and a fourth in preparation. These reports summarize the most reliable information obtainable and will greatly encourage hydro-electric enterprise.

Investigation of underground water supplies is equally as important as in the case of surface waters. This work includes a determination of the areas that are underlaid by water-bearing strata, of the depths at which these strata occur, and of the amount and quality of water that may be obtained. A knowledge of the existence of water-bearing strata is very necessary, not alone for the purpose of irrigation, but in some parts of Washington settlement is well-nigh impossible because not even enough water for domestic purposes has as yet been obtained.

### GEOLOGICAL SURVEYS.

Geological surveys have been organized in nearly all the states of the Union, and in some of the older states they have been continuously active for over fifty years. In most states they are regular departments of the state government, and receive definite financial support in the way given to every other bureau or department. They are usually in charge of a board of three or five men, who direct the work of the survey, and who are responsible for its management.

The general purpose of a geological survey is to disclose and make known the mineral resources of a state. Under such heading would naturally come the metalliferous deposits, coal fields, iron ores, building stones, soils, clay beds, road materials, water power, and kindred subjects. The field work of a survey consists in mapping accurately the locations of all such valuable products as those just mentioned, and determining the areal extent and quantity of each. The office work consists of careful

tests and analyses of all samples collected in the field, and the preparation of reports which describe fully the mineral resources under investigation. The reports and maps when published are valuable alike to the citizens of the state and to outside capitalists and investors. Surveys examine and test those minerals, ores and rocks that are but little known and determine whether or not they are of economic value. They also suggest ways of preventing waste in mining operations, and assist in all ways to conserve the natural resources. Surveys are potent factors in making available valuable information regarding the mineral resources of the state, which knowledge may be utilized by the poorest citizen as well as the wealthiest corporation.

## PRINCIPAL FEATURES OF STATE LAWS PROVIDING FOR SURVEYS.

The law establishing a state geological survey was passed by the legislature at the session of 1901. As set forth in the various sections of the law, the principal objects of the measure are as follows: An examination of the economic products of the state, such as gold, silver, copper, lead, and iron ores, as well as building stones, clays, coal, and all mineral substances of value; an examination of the soils, road-building material, water supplies, artesian wells, water power, etc.; an examination of the physical features of the state with reference to their practical bearing upon the occupations of the people; the preparation of special geographic and economic maps to illustrate the resources of the state; and the publication from time to time of the results of the work of the survey in reports and bulletins, and the dissemination of these among the people.

At the session of 1903 the legislature amended the above law, by providing for cooperative work between the federal and the state bureaus engaged in geological survey work. The amendment authorized the state board of geological survey to make provisions for topographic, geologic, and hydrometric surveys of the state, in cooperation with the United States geological survey, in such manner as would be of the greatest benefit to the agricultural, industrial and geological requirements of the

state. The amendment carried a proviso that the director of the United States Geological Survey should agree to expend on the part of the United States upon such surveys a sum equal to that expended by the state.

At the session of the legislature for 1909 the work of the state geological survey was provided for by a law having these provisions:

Section 1. In order to complete the topographical map of the State of Washington, and for the purpose of making more extensive stream measurements, and otherwise investigating and determining the water supply of the state, there is hereby appropriated the sum of thirty thousand dollars (\$30,000), for cooperation with those branches of the United States Geological Survey engaged in this work. This appropriation, however, shall be contingent upon, and not become available unless the United States government apportion an equal amount to be expended for similar purposes within the state. The board of geological survey is hereby authorized and directed to enter into such agreements with the director of the United States Geological Survey as will insure that the said surveys and investigations be carried on in the most economical manner, and that the maps and data be available for the use of the public as quickly as possible.

- SEC. 2. In order to enable the board of geological survey to carry on investigations authorized by law, there is hereby appropriated the sum of twenty thousand dollars (\$20,000) for the use of said board in the geological and other investigations provided for in chapter 165 of the Session Laws of the State of Washington for 1901, and as amended in chapter 157 of the Session Laws of 1903.
- SEC. 3. In order to carry out the purposes of this act, all persons employed hereunder are authorized to enter and cross all lands within the state: *Provided*, That in so doing no damage is done to private property.
- SEC. 4. The sum of fifty thousand dollars (\$50,000) herein appropriated for the purposes specified in this act shall be available in the following manner: One-half during the first twelve months after this act takes effect, and the unexpended balance during the second twelve months after this act takes effect.

### **REPORT FOR 1915-17.**

### ORGANIZATION.

The State Board of Geological Survey consists of the following members: Governor Ernest Lister, President; Lieutenant Governor Louis F. Hart; State Treasurer Edward Meath, Secretary; President Henry Suzzallo, of the State University; and President Ernest O. Holland, of the State College. The State Geologist is Professor Henry Landes, who has his office at University Station, Seattle. In cooperation with the United States Geological Survey the Director of that organization is represented by Thomas G. Gerdine, Geographer in Charge, Northwestern Division; and Glen L. Parker, 406 Federal Building, Tacoma, District Engineer.

### TOPOGRAPHIC SURVEYS.

The accompanying progress map indicates the location of the quadrangles surveyed during this biennium, as well as from 1909 to 1915. In selecting quadrangles for survey it has been the policy of the board to choose those areas where the demand for the maps is very great and where they are most likely to be used to advantage.

Since the last biennial report was made the following topographic sheets have been engraved and are now ready for use: Arlington, Chehalis, Coyote Rapids (formerly called the Haven sheet), Hoquiam, Ocosta, and Wenatchee. The following topographic sheets are in the engravers' hands and will soon be ready for distribution: Malaga, Pasco, and Priest Rapids (formerly called the Mitchell sheet).

During the field season of 1915 the topographic mapping was done on the Prosser and Wallula quadrangles. Upon these maps the office work has been completed and they are now ready for the engraver. The field season of 1916 was spent on the Walla Walla and Connell quadrangles, and these areas were completed. The four quadrangles just mentioned were chosen for topographic mapping in order to render assistance to irrigation projects which will be necessary in order to utilize large portions of the arid region. The Connell quadrangle was sur-

veved in order to render assistance to the dry farming experiment station of the State College which has recently been established at Lind.

Copies of all engraved topographic maps may be purchased of the United States Geological Survey, Washington, D. C., at ten cents each, or at six cents each in lots of one hundred or more.

### HYDROMETRIC SURVEYS.

The water resources of the state have been investigated jointly by the federal and state surveys, each party contributing equal sums. The work is directed from a district office of the federal Survey, located in the Federal Building at Tacoma. In addition the federal Survey maintains gaging stations on Indian reserves, the cost of which is borne by the United States Office of Indian Affairs. It also cooperates with the United States Reclamation Service, and the United States Forest Service in collecting and publishing stream flow data. The funds for carrying on stream gaging work are not sufficient to meet the demand for such work, so that power companies, irrigation districts, cities, and individuals have contributed services of employees, instruments, material, equipment, and other help. The cost of hydrometric work carried on in the state during the present biennium is shown in the following table, the value of all services and other assistance rendered by cooperating parties being estimated when not known definitely: ESTIMATED COST OF WATER RESOURCES INVESTIGATIONS IN

THE STATE FOR THE BIENNIUM ENDING MARCH 31, 1917.

Washington Geological Survey		\$12,000
United States Geological Survey, gaging streams and		
power reports	\$12,000	
United States Geological Survey, publishing water		
supply papers	13,730	
United States Geological Survey, ground water in-		
vestigations in Quincy Valley	1,650	
United States Reclamation Service (approximate)	7,000	
United States Office of Indian Affiairs	6,700	
United States Forest Service	1,060	
District office rent furnished free of charge in the		
Federal Building at Tacoma	1,440	
Total Federal		43,580
Power companies, irrigation districts, cities and ind		7,600
A		200 190

Cooperation between the British Columbia Hydrometric Survey and the United States Geological Survey was instituted during the biennium. It consists of a plan to maintain jointly gaging stations on all important streams at or near the international boundary between Washington and British Columbia.

At present two such stations are being maintained; one on Clark Fork at Metaline Falls, Washington, and one on Columbia River at Trail, British Columbia. It is hoped that the work can be extended to cover Kettle, Okanogan, Similkameen, and Skagit rivers.

The chief objects of hydrometric surveys are to obtain accurate information regarding the amount of water that could be depended upon for irrigation and for power purposes. All of the water that can be secured by storage that is tributary to arid Washington will soon be needed for irrigation. The rapid industrial development of Western Washington demands the continued utilization of the available water power. The detailed investigations have been along two lines, viz.: establishment and maintenance of gaging stations, and a series of reports summarizing the power possibilities of the Cascade Range.

Gaging Stations.—As shown on the progress map, gaging stations have been maintained upon all of the principal streams of the state. Measurements of flow are frequently made, and daily records indicating height of water on substantially set gages are kept by local observers or by means of several types of water stage registers, which record the height of water on record sheets by clock driven mechanism. The measurements and gage heights make possible an estimate of the average amount of water flowing each day during the year. The water contributed by any stream varies considerably from day to day, season to season, and year to year, so that records for a series of years are necessary for properly designing hydraulic works. The records are particularly important during low water periods which occur on some streams in the early fall and on others in mid-winter. There are 90 gaging stations in operation at the close of the biennium, 34 of which are equipped with automatic water stage recording instruments.

The measurements, computed daily discharge, and summary of results are published annually by the United States Geological Survey in water supply papers. A sample of the data published for each station is given below for Skagit River at Sedro Woolley during the year ending September 30, 1916:

SKAGIT RIVER NEAR SEDRO WOOLLEY, WASH.

Location.—In NW1/4, Sec. 36, T. 35 N., R. 4 E., at Northern Pacific Railway bridge, three-fourths mile below intake of Beatty's slough, 11/2 miles south of Sedro Woolley in Skagit County, 21 miles above mouth, and 32 miles below Baker River. Elevation at low water, about 25 feet.

Drainage Area.—2,930 square miles; measured on General Land Office map.

Records Available.-May 1, 1908, to September 30, 1916.

Gage.—Vertical staff on cribbing 100 feet above draw-span pier of Northern Pacific Railway bridge. Datum, extreme low water in Puget Sound. Temporary gage used when stage was below 37 feet; installed September 25, 1915, on downsteam side of group of piles, 50 feet above third concrete pier (from left bank) of railway bridge. Gage read by E. J. Woods.

Discharge Measurements.—Made from highway bridge onethird mile above gage, Beatty's slough measured from highway bridge.

Channel and Control.—Gravel; shifts at high stages. Banks do not overflow except during extreme floods.

Extremes of Discharge.—Maximum stage recorded during the year, 46.5 feet at 3 p. m. June 18 (discharge, 63,800 second-feet); minimum stage recorded, 32.3 feet at 7 a. m. October 10-11 (discharge, 2,740 second-feet).

1908-1916: Maximum stage recorded, 56.1 feet November 30, 1909 (discharge, 96,100 second-feet); minimum stage recorded, 32.3 feet September 29-30 and October 10-11, 1915 (discharge, 2,740 second-feet).

Ice.—Stage-discharge relation seldom affected by ice.

Diversion.—Beatty's slough carries from 1.5 per cent. of total flow at low stages to 8 per cent at high stages. Amount determined each visit and added to flow measured in river proper.

Regulation.—None.

Accuracy.—Stage-discharge relation changed during high water in June. Rating curve used before June 18 well defined between 3,500 and 18,000 second-feet, fairly well defined above and below; curve used after June 18 fairly well defined above 6,000 second-feet and poorly defined below. Gage read to half tenths daily; in addition crest gage heights observed or estimated. Practically no diurnal fluctuation. Results good except for a short interval in January and in February when they are only fair, due to ice.

### DISCHARGE MEASUREMENTS OF SKAGIT RIVER NEAR SEDRO WOOLLEY, WASH., DURING THE YEAR ENDING SEPTEMBER 30, 1916.

D.4.	Made De	GAGE H	EIGHT (a)	Die.
Date	Made By—	Old Gage	Temporary Gage	Dis- charge
		Feet	Feet	SecPt.
Dec. 12 Dec. 18 June 22 June 28 Sept. 27	J. T. Hartson. J. T. Hartson. C. O. Brown. O. O. Brown. J. E. Stewart.	86.40 85.85 40.00 42.95 84.97	36.35 35.80 (b) (b) 35.49	15,500 12,800 31,800 48,800 10,900

⁽a) Observer's readings below 37 feet were taken from temporary gage; above 37 feet from old gage.
(b) Temporary gage submerged.

DAILY DISCHARGE, IN SECOND-FEET, OF SKAGIT RIVER NEAR SEDBO WOOLLEY, WASH., FOR THE YEAR ENDING SEPTEMBER 30, 1916.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,960	31,900	8,150	7,220	4,920	11,800	13,200	19,200	20,000	82,200	25,300	18,700
2	6,920	18,800	7,220	6,920	4,660	11,100	13,900	22,100	20,000	34,800	22,500	13,00
3	7,530	18,000	8,460	6,320	4,890	10,400	14,800	30,000	21,700	41,200	21,600	14,10
4	6,030	15,700	12,500	6,030	5,120	9,740	15,300	33,300	28,100	44,000	20,300	
B	4,400	16,100	12,100	5,740	5,340	8,780	16,800	32,800	30,000	35,800	19,800	
6	5,460	15,000	13,500	4,920	5,570	8,460	15,700	33,800	24,400	34,200	19,800	
7	3,900	12,500	13,200	4,920	5,800	8,150	15,000	33,800	22,600	30,700	20,300	
8	3,420	10,400	22,100	5,460	6,030	11,100	15,700	28,100		34,200	21,200	9,63
9	3,420	10,100	46,700	5,190	5,460	22,100	16,100	25,300	30,000	42,900	21,600	10,30
10	2,740	9,100		4,920	8,150	31,900	16,800	21,700	28,600	39,000	20,300	9,01
11	2,740	8,460	19,200	3,900	12,500	27,600	18,400	19,200	24,400	36,800	20,700	8,08
12	2,960	7,840	15,300	3,660	9,100	35,200	18,400	17,600	24,400	41,800	21,200	7,78
13	5,190	6,920	13,500	3,660	7,220	38,200	16,800	16,800	29,000	41,800	21,600	7,78
14	10,700	6,320	12,100	3,420	8,460	28,100	16,100	15,300	35,700	35,300	21,600	7,78
15	8,460	6,030	10,400	3,190	22,600	23,000	18,400	15,300		29,600	20,700	7,18
16	5,460	6,920	9,420	3,190	48,800	19,600	16,800	17,600		32,700	19,000	7,18
17	4,400	7,530	9,100	3,350	46,700	19,200	15,700	20,000		37,400	15,500	7,48
18	4,400	11,400	8,150	3,510	32,800	17,600	15,700	22,100		36,800	13,700	7,48
19	9,100	14,600	7,840	8,670	26,700	16,100	15,300	22,600	59,900	31,700	13,000	7,18
20	6,620	12,500	9,100	3,830	24,800	16,100	14,600	23,500	45,100	28,600	12,000	7,18
21	10,400	9,420	12,100	3,990	23,500	21,700	14,300	23,000	41,200	32,200	11,000	7,18
22	8,460	11,400	24,400	4,150	21,700	20,400	14,300	21,700		29,100	11,300	7,78
28	7,220	11,400	17,200	10,400	20,000	21,700	13,200	19,200		29,600	12,300	7,18
24	9,100	12,100	13,500	13,200	18,000	18,400	12,500	18,000	41,800	27,200	13,700	6,80
25	11,100	10,100	14,300	8,460	15,700	16,800	12,800	18,000	42,900	27,200	15,200	7,78
26	16,800	11,800	12,500	6,920	14,600	15,700	14,800	20,800	44,600	27,200	15,900	12,00
27	22,100	9,420	11,100	5,740	14,300	18,400	17,200 24,800	23,900	52,400 48,500	23,900	15,900	8,08
28	33,800	9,740			12,500	15,000	22,100		46,800	22,000	15,500	6,60
9	30,900		9,420	1 000		13,500	19,600	23,500		22,500	15,200	6,00
30	18,000 25,300	9,420	7,220	10.000		12,800	15,000	20,000	05,000	24,800	14,100	

NOTE.—Stage-discharge relation seriously affected by ice gorge one-half mis below gage Jan. 17-21, discharge interpolated. Gage heights doubtful on account of ice at gage Feb. 3-7, discharge interpolated.

MONTHLY DISCHARGE OF SKAGIT RIVER NEAR SEDRO WOOLLEY, WASH., FOR THE YEAR ENDING SEPTEMBER 30, 1916. (Drainage area, 2,980 square miles.)

	DISCE	IARGE IN	SECONI	-FEET	RUN	OFF
MONTH	Maxi- mum	Mini- mum	Mean	Per Square Mile	Depth in Inches on Drainage Area	Total in Acre-Feet
October	88,800	2,740	9,680	8.80	8.80	595,000
November	81,900	6,080	11,700	8.99	4.45	696,000
December	46,700	7,220	18,700	4.68	5.40	842,000
January	18,200	8,190	5,860	1.83	2.11	380,000
February	48,800	4,660	16,000	5.46	5.89	920,000
March	88,200	8,150	18,200	6.21	7.16	1,120,000
April	24,800	12,500	16,100	5.49	6.12	958,000
May	83,800	15,300	22,700	7.75	8.94	1,400,000
June	68,800	20,000	36,900	12.6	14.06	2,200,000
July	44.000	22,000	82,600	11.1	12.80	2,000,000
August	25,800	11,000	17,700	6.04	6.96	1,000,000
September	15,900	6,020	9,120	8.11	8.47	543,000
The year	68,300	2,740	17,400	5.94	81.16	12,700,000

Cascade Power Reports.—Through cooperative arrangements with the State Board of Geological Survey in 1909, the federal Survey adopted its first comprehensive plan for giving the public accurate data concerning water power resources. More recently similar work has been instituted in Oregon. Progress has been hampered considerably due to lack of sufficient base data and the need of continuing stream flow observations over a series of years in order to insure dependable estimates of water supply. Surveys have been run along the portions of the larger streams in the Cascade Range. Reservoir sites which appear to offer favorable storage opportunities for increasing the low water flow have been surveyed and a large mass of information bearing upon the feasibility of hydroelectric projects has been collected.

The scheme followed in analyzing the power resources of the Cascades consists of assembling the estimates for a group of streams within a relatively small section of the range. It is proposed to publish the estimates in a series of seven reports published by the United States Geological Survey as water supply papers. The areas to be covered in the seven units are shown on the progress map attached. The first report is Water Supply Paper 253 and is entitled "Water Powers of the Cascade Range, Part I, Southern Washington." The power possibilities of Klickitat, White Salmon, Little White Salmon, Lewis and Toutle rivers are summarized.

The second report is Water Supply Paper 313 and is entitled "Water Powers of the Cascade Range, Part II." The power possibilities of Cowlitz, Nisqually, Puyallup, White, Cedar and Green rivers are summarized. This report also includes a discussion of the hydroelectric market conditions in the Puget Sound region.

The third report is Water Supply Paper 369 and is entitled "Water Powers of the Cascade Range, Part III, Yakima Basin." The summaries were more difficult to compile than for any of the series on account of the necessity of taking into consideration the ultimate use of stored water for irrigation in the Yakima Valley.

The fourth report has not as yet been published, but will be entitled "Water Powers of the Cascade Range, Part IV, Wenatchee and Entiat basins." The relative water power resources in the Wenatchee basin with and without the proposed Quincy Valley irrigation scheme in operation will be summarized and the flow available for the Quincy project through utilizing storage in Wenatchee Lake reservoir will be described.

All of the field data have been collected for the fifth unit and considerable work has been done toward compiling the data.

Practically all of the surveys have been completed for the sixth and seventh units, and most of the field reconnaissance for the sixth unit has been finished. Gaging stations are being maintained in each to determine the available water supply.

# GEOLOGICAL SURVEYS.

Mineral Resources.—The State Geological Survey, since 1911, has cooperated with the United States Geological Survey in the collection of statistics regarding the mineral production of Washington. It is a matter of great importance to the state that such statistics be secured covering accurately the entire mineral output, because of the bearing this must have upon

the establishment of industrial enterprises. The accompanying table gives a summary of the principal mineral products of Washington for the ten-year period from 1906 to 1915, inclusive. While the production is already large, and constantly growing, it is capable of a very much greater extension when the economic minerals are investigated and made better known.

The statistics covering the mineral resources of the state should be published annually. The report for 1912, known as "Bulletin 11," gives a description of the principal localities where different mineral products are obtained, with a list of producers and a statement covering the output. This bulletin was accompanied by an outline map of the state wherein, by a system of symbols and colors, all varieties of mineral products were shown in the localities where they are obtained.

MINERAL PRODUCTION OF WASHINGTON FROM 1906 TO 1915, INCLUSIVE (a).

NON-METALLIO PRODUCTS	1906	1907	1908	1800	1910	1911	1912	1918	1914	1915
Oosl Olay products Portland cement	\$6,908,434 1,459,884 459,975	\$7,679,801 1,921,884 (b) 214,500 562,852	\$6,690,412 2,104,289 (b) 896,000 870,944	\$9,158,999 8,080,486 767,195 742,878	\$0,784,465 8,023,854 1,081,704 642,992	\$8,174,170 2,861,758 1,496,807 1,345,551	\$8,042,871 2,388,870 2,012,785 800,201	\$9,243,137 2,370,226 2,853,260 140,279	\$6,751,511 1,809,491 1,870,078 72,079	\$5,276,299 1,460,651 1,780,499 280,688
Sandstone Limestone Markle	169,500	285,586	464,587 81,660	885,470 88,269	438,581 36,186	301,843 82,479	344,476 20,370	(c) 632,915 560,468 62,913	1,088,042 450,436 10,585	38,710 88,710 11,550
Lime Mineral waters Sand and gravel. Distomaceous earth.	847,924 10,800 144,725	238,569 10,820 179,800	228, 358 13,650 261, 561	282,628 15,958 423,425	267,735 12,571 481,569	228, 933 14,654 819, 760	234,832 17,542 845,299	219,163 18,834 385,896	178,945 28,777 824,628	189,260 11,708 211,480 14,515
Totals	\$8,650,419	\$11,165,677	\$11,061,426	\$14,825,808	\$15,690,657	\$14,775,954	\$14,216,236	\$16,507,081	\$12,564,572	\$10,712,624
METALLIO PRODUCTS										
Gold Silver Copper Lead	80,788 80,788 45,980 86,787	\$262,800 55,400 24,453 29,786	21,411 82,844	\$802,051 41,834 88,167 12,414	\$788,145 110,896 11,088 68,180	\$847,677 129,204 39,776 88,186	\$680,984 254,526 179,192 5,732	200,068 200,068 147,883 8,909	\$667,178 146,468 108,671 2,566	(\$591,419 129,700 178,662 18,875
Totals	\$850,588	\$80,173	\$854,866	\$448,986	\$968,249	\$1,056,017	\$1,120,214	\$1,068,185	\$809,767	\$718,665
Grand Totals	396'000'08	\$11,587,616	\$11,415,781	\$15,274,274	\$16,667,906	\$15,681,971	\$15,836,450	\$17,580,216	\$13,874,889	\$11,426,289
(a) Compiled from Mineral Resources U. (b) Approximate production. (c) Heretofore included in granite totals.	Compiled from Mineral Resources U. Approximate production. Heretofore included in granite totals.	mources U. S.	Geological Survey.	Survey.						

Office Work.—The office work of the Geological Survey becomes increasingly heavy from year to year. Constant inquiries come to the office in regard to the mineral resources of every portion of the state. Prospective settlers and others are very desirous of accurate information regarding the climatic and soil conditions of those regions in which they may plan to make their homes. Manufacturers are desirous before coming to Washington of knowing the nature of the fuel supply and the variety of crude materials of a mineral character which may be obtained for manufacturing purposes. On the whole the work of the State Geological Survey is carried on at a minimum of expense because a very large part of the work, especially the office work, is done by men who do not receive any compensation for that purpose out of the funds of the Survey.

Within the biennium a report on The Coal Fields of Kittitas County, known as Bulletin 9, has been printed. This is the third of the county reports on our coal fields, bulletins on King and Pierce counties having been issued in previous years. There has lately been printed, also, a report on The Tertiary Formations of Western Washington, known as Bulletin 13. This publication describes the bed rock formations of that part of the state to the westward of the foothills of the Cascade Mountains. The report is accompanied by geologic maps which represent not only the areal extent of the various kinds of rocks, but also the structure of the formations, the dip and strike of the beds, and in a general way indicate the best places for prospecting for gas and oil. The possible occurrence of these economic products at the different localities of the extensive area are carefully considered.

# FINANCIAL STATEMENT. TOPOGRAPHIC AND HYDROGRAPHIC SURVEYS.

U. S. Geological Survey:		
Allotment for cooperation 1915-17	\$35,000	00
Expenditures to December 1, 1916	30,488	06
Balance on December 1, 1916	\$4,511	94
Appropriation for 1915-17	\$35,000	00
Expenditures to December 1, 1916		
Balance on December 1, 1916	\$4.888	57

# RECOMMENDATIONS.

# APPROPRIATIONS REQUESTED.

For	topographic and hydrometric surveys (conditioned upon a	
	similar sum being expended in the state by the United	
	States Geological Survey)	35,000
For	Geological Surveys	20.000

### TOPOGRAPHIC SURVEYS.

For some time the greatest demand for topographic surveys has come from the arid and semi-arid regions of the state where the land may be put to its greatest use only by irrigation, and where topographic maps are invaluable for engineering work of this character. Such maps are also requested in those portions of Washington where the country is being rapidly settled, and in certain mountainous areas where large water-power projects are under consideration. Urgent requests are now on file for topographic surveys of Asotin, Eatonville, Fort Simcoe, Othello, Olympia, Pomeroy, Port Angeles, Sultan and Yakima quadrangles.

In the past eight years level lines or profiles have been run along all the streams of the Cascade Mountains, except the three forks of the Nooksack River. This has been done as a necessary part of the problem of determining with accuracy the total hydro-electric power of the rivers of the Cascades. In the next biennium the Nooksack River should be surveyed, and river profiles begun on the streams of the Olympic Mountains. When the latter are completed it will then be possible to publish detailed reports on the water power resources of the entire state.

# HYDROMETRIC SURVEYS.

As indicated on the progress map accompanying this report, gaging stations are maintained on a large number of the rivers where information is very necessary as to the total amount of water available for municipal supplies, irrigation and power. The number of stations should be increased rather than diminished. Each added year of gaging at any station makes the records that much more valuable. The demand for accurate information regarding our water resources grows stronger with

each biennium. It is recommended that the usual appropriation for this work be made so that cooperation with the Federal Government may be continued.

# GEOLOGICAL SURVEYS.

The sum of twenty thousand dollars, the same amount as appropriated by the legislatures of 1909, 1911 and 1913, is requested for geological surveys, in order that certain lines of work now under way may be completed and some important new work may be begun.

Uncompleted Reports.—In former years a large amount of field and office work has been done upon certain reports which have not yet been published, because the money has not been available. It is urgent that funds be provided so that such bulletins may be printed at once and their contents made available for use. The field work has been completed, and the manuscript partly prepared, for a report upon the coal deposits of Whatcom and Skagit counties. The field work has been about two-thirds completed for a report upon the coal fields of Thurston, Lewis and Cowlitz counties. When these reports are through the press the State Geological Survey will have issued detailed bulletins covering all of the coal resources of the state.

Some time ago a bulletin was published on the surface geology of the Puget Sound basin. Since that time the field work has been completed and the manuscript prepared for a similar report upon the surface geology of that portion of the state south of the latitude of Tenino, and west of the foothills of the Cascades. This report can be sent to the printer as soon as an appropriation is available.

Soil Surveys.—In earlier years soil surveys have been made of nearly all the logged-off lands of Western Washington, besides similar surveys and reports upon the Quincy Valley country, Stevens and Franklin counties, in Eastern Washington. In all soil surveys cooperation has been afforded by the United States Bureau of Soils, the Federal Bureau usually assuming about three-fourths of the expense of the field work besides all

the cost of printing. The reports of the soil surveys have been in large demand from the agriculturists, commercial bodies, prospective settlers, county assessors, and all others who desire to know the facts about the soil conditions in various parts of the state. At the present time requests are on file for soil surveys in various sections of Washington where this work has not been done.

Road Materials.—In the large road construction program now being carried out by the state and the various counties, it is a matter of the greatest concern that the very best quality of materials be used. In most states it is the business of the Geological Survey to locate, map, and describe all the materials suitable for road building. Repeated requests have come from county commissioners, county engineers, and road contractors that such a detailed survey be made in Washington.

It is therefore recommended that provision be made for a complete field investigation of the deposits of sand and gravel suitable for road surfacing and for concrete construction as well; and that the field studies should include a search for all available occurrence of limestone and clay, of value in cement making, which have not been described in earlier survey reports. It is proposed that extensive lots of samples be collected in the field, and that these be carefully tested in the most practical way, so that the relative values of all samples secured can be accurately determined. It would be the plan to publish full reports and maps covering all the results of the field investigations and the practical tests that were made, and place these in the hands of all engineers and others who are charged with the responsibility of maintaining the highest possible standards in road construction.

Surveys of Metal Mining Districts.—In addition to the detailed surveys already made of the best known districts, there are many requests for reconnaissance surveys of the scattered mining sections, whereby the varieties of bed-rock, the important minerals, and the character of the ore deposits may be determined and described. For the next biennium surveys of the mining districts in Ferry, Stevens and Pend Oreille counties should

be made. Such surveys are of very great service to the mining men who are giving their time and money to the development of one of the state's resources. It is of great value to the miner, as well as to the investor, and to the state at large, that the truth in regard to the quality and quantity of the ore bodies should be made known.

Report on Mineral Industries.—Any information bearing upon the production of different minerals in different counties and other portions of the state is always in much demand. It seems necessary to keep this information in such form that it may be given out regularly and be revised as often as desirable. At least once a year reports and maps should be issued which set forth the localities where different mineral products may be obtained, along with the names of all producers, and with accurate statistics in regard to the output of each particular mineral concerned. Such information is very greatly desired by manufacturers and others who have occasion to use in any way whatsoever those minerals that are of economic importance.

Topographical Map.—There is constant inquiry for a map which will show by a system of contours, or by a series of lines, the elevations of various portions of the state. By utilizing the base map which has already been prepared, and by compiling the data regarding elevations throughout the state, it will be possible to prepare a map which will give the information most needed. Such a map should be printed in colors, the black referring to culture, the blue giving the water bodies, and a series of brown shades or tints which will give the variation in elevation from sea level to the tops of the highest mountains.

Geological Map.—More requests have come for a geological map of the state than for any other one thing. With the base map now available it is desirable that the boundaries of the different geological formations should be entered thereon and a complete geological map of the state be prepared as early as possible. This has been very generally done by other states and Washington will be one of the last to prepare such a map. The cost of preparation of such a map is not excessive, and its value to our citizens generally would repay the cost many fold.

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# **PUBLICATIONS**

OF THE

# WASHINGTON GEOLOGICAL SURVEY

# ADDRESS STATE LIBRARIAN OLYMPIA. WASHINGTON

Volume 1.—Annual Report for 1901. Part 1, Creation of the State Geological Survey, and An Outline of the Geology of Washington, by Henry Landes; part 2, The Metalliferous Resources of Washington, Except Iron, by Henry Landes, William S. Thyng, D. A. Lyon and Milnor Roberts; part 3, The Non-Metalliferous Resources of Washington, Except Coal, by Henry Landes; part 4, The Iron Ores of Washington, by S. Shedd, and the Coal Deposits of Washington, by Henry Landes; part 5, The Water Resources of Washington, by H. G. Byers, C. A. Ruddy and R. E. Heine; part 6, Bibliography of the Literature Referring to the Geology of Washington, by Ralph Arnold. Out of print.

Volume 2.—Annual Report for 1902. Part 1, The Building and Ornamental Stones of Washington, by S. Shedd; part 2, The Coal Deposits of Washington, by Henry Landes and C. A. Ruddy. Postage 20 cents.

Bulletin 1.—Geology and Ore Deposits of Republic Mining District, by Joseph B. Umpleby. Bound in cloth; price 35 cents.

Builetin 2.—The Road Materials of Washington, by Henry Landes. Bound in cloth: price, 60 cents.

Builetin 3.—The Coal Fields of King County, by Geo. W. Evans. Bound in cloth; price, 75 cents.

Builetin 4.—The Cement Materials of Washington, by S. Shedd. Bound in cloth; price, 75 cents. Paper cover; price, 40 cents.

Builetin 5.—Geology and Ore Deposits of the Myers Creek and Oroville-Nighthawk Districts, by Joseph B. Umpleby. Bound in cloth; price, 50 cents.

Builetin 6.—Geology and Ore Deposits of the Blewett Mining District, by Charles E. Weaver. Bound in cloth; price, 50 cents.

Builetin 7.—Geology and Ore Deposits of the Index Mining District, by Charles E. Weaver. Bound in cloth; price, 50 cents.

Bulletin 8.—Glaciation of the Puget Sound Region, by J. Harlen Bretz. Bound in cloth; price, 60 cents. Paper cover; price, 35 cents.

Bulletin 9.—The Coal Fields of Kittitas County, by E. J. Saunders. Paper cover; price, 40 cents.

Builetin 10.—The Coal Fields of Pierce County, by Joseph Daniels. Bound in cloth; price, 60 cents. Paper cover; price, 40 cents.

Builetin 11.—The Mineral Resources of Washington, with Statistics for 1912, by Henry Landes. Paper cover; price, 25 cents.

Bulletin 12.—Bibliography of Washington Geology and Geography, by Gretchen O'Donnell. Paper cover; price, 25 cents.

Builetin 13.—The Tertiary Formations of Western Washington, by Charles E. Weaver. Paper cover; price, 40 cents.

Builetin 14.—The Quincy Valley Irrigation Project, by Henry Landes, A. W. Mangum, H. K. Benson, E. J. Saunders, and Joseph Jacobs. Paper cover; price, 20 cents.

Bulletin 15.—A Preliminary Report on the Tertiary Paleontology of Western Washington, by Chas. E. Weaver. Paper cover; price, 20 cents.

Builetin 16.—Geology and Ore Deposits of the Covada Mining District, by Charles E. Weaver. Paper cover: price, 25 cents.

# PUBLICATIONS OF THE U. S. GEOLOGICAL SURVEY, IN CO-OPERATION WITH THE WASHINGTON GEOLOGICAL SURVEY,

(For copies of these publications address the Director, U. S. Geological Survey, Washington, D. C. Water-Supply papers may also be obtained, upon request, and free of charge, from the U. S. Geological Survey district office, 406 Federal Building, Tacoma, Washington.)

### TOPOGRAPHIC MAPS OF THE FOLLOWING QUADRANGLES.

Arlington, Beverly, Cedar Lake, Chehalis, Coyote Rapids, Hoquiam, Malaga, Moses Lake, Mount Vernon, Ocosta, Pasco, Priest Rapids, Prosser, Quincy, Red Rock, Wallula, Wenatchee, Winchester.

### Power Reports.

Water-Supply Paper No. 253: Water Powers of the Cascade Range, Part I, Southern Washington.

Water-Supply Paper No. 313: Water Powers of the Cascade Range, Part II, Southeastern Washington, Puget Sound Region.

Water-Supply Paper No. 369: Water Powers of the Cascade Range, Part III, Yakima Basin.

Water-Supply Paper No. —: Water Powers of the Cascade Range, Part IV, Wenatchee and Entiat basins. In preparation.

#### River Profiles.

Water-Supply Paper No. 346: Profile Surveys of Clark Fork of Columbia River.

Water-Supply Paper No. 366: Profile Surveys of Snoqualmie, Sutan and Skykomish rivers.

Water-Supply Paper No. 368: Profile Surveys of Wenatchee River and tributaries.

Water-Supply Paper No. 376: Profile Surveys, Chelan and Methow pasins.

Water-Supply Paper No. 377: Profile Surveys, Spokane and John Day basins.

Water-Supply Paper No. 419: Profile Surveys in Skagit River Basin.

## Annual Stream-Flow Reports.

Water-Supply Paper No. 272: Surface Water Supply of the United States, North Pacific Coast, 1909.

Water-Supply Paper No. 292: Surface Water Supply of the United States, North Pacific Coast, 1910.

Water-Supply Paper No. 312: Surface Water Supply of the United States. North Pacific Coast, 1911.

Water-Supply Paper No. 332: Surface Water Supply of the United States, North Pacific Coast, 1912.

Water-Supply Paper No. 340. Gaging stations and publications on water resources 1885-1913.

Water-Supply Paper No. 362: Surface Water Supply of the United States, North Pacific Coast, 1913.

Water-Supply Paper No. 392: Surface Water Supply of the United States, North Pacific Coast, 1914.

Water-Supply Paper No. 412: Surface Water Supply of the United States, North Pacific Coast, 1915. In preparation.

Water-Supply Paper No. 442: Surface Water Supply of the United States, North Pacific Coast, 1916. In preparation.

### Qualitative Report.

(Principally in cooperation with State Board of Health.)

Water-Supply Paper No. 339: Quality of Surface Waters of Washington.

# PUBLICATIONS OF THE U. S. DEPARTMENT OF AGRICULTURE, BUREAU OF SOILS, IN COOPERATION WITH THE WASHINGTON GEOLOGICAL SURVEY.

(For copies of these publications address one of the members of congress from Washington.)

Reconnoissance Soil Survey of the Eastern Part of Puget Sound Basin.

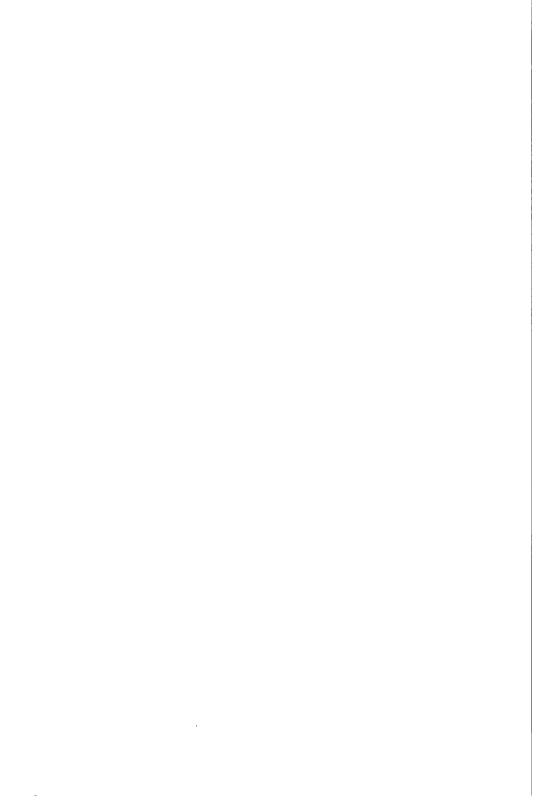
Reconnoissance Soil Survey of the Western and Southern Parts of the Puget Sound Basin.

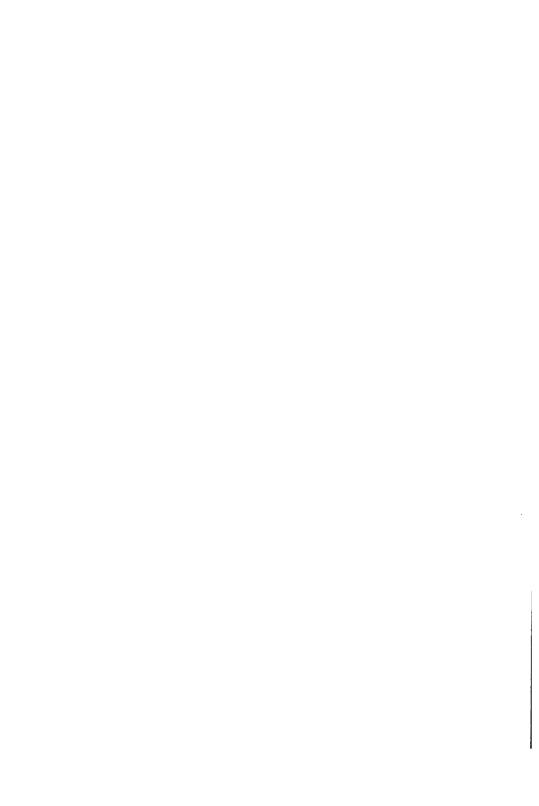
Reconnoissance Soil Survey of Southwestern Washington.

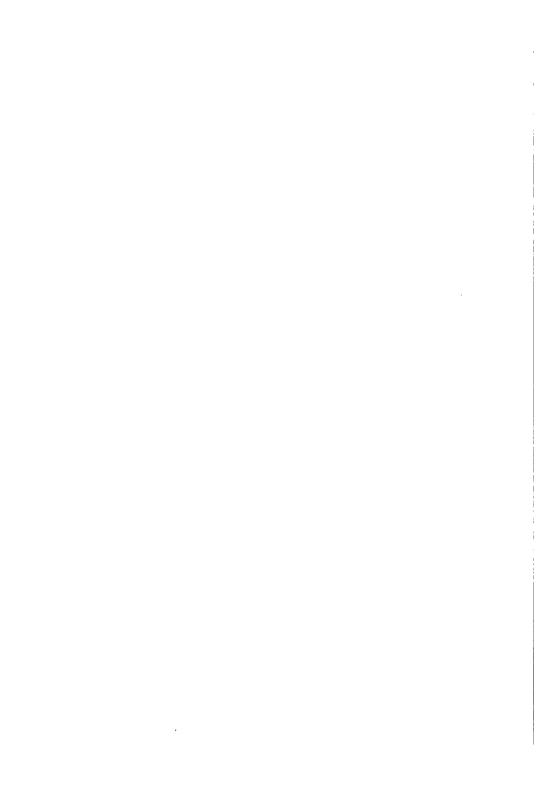
Reconnoissance Soil Survey of the Quincy Area.

Reconnoissance Soil Survey of Stevens County.

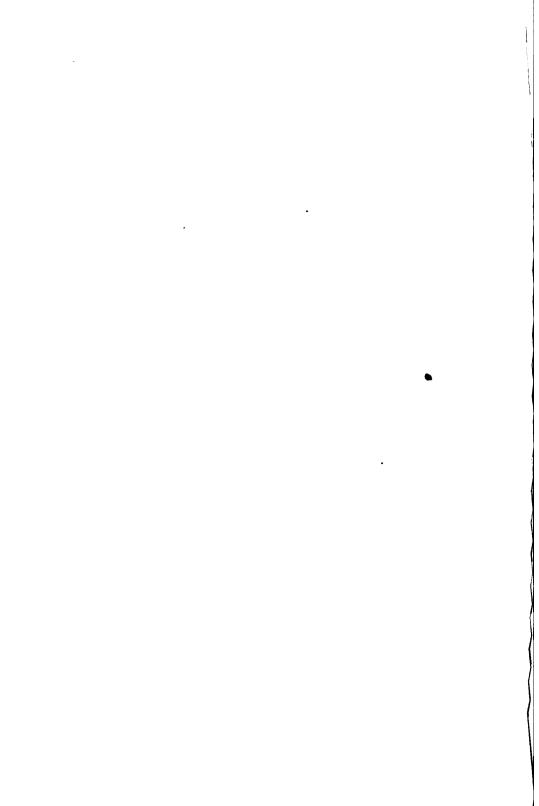
Reconnoissance Soil Survey of Franklin County. In press.















# STATE OF WASHINGTON

# ELEVENTH BIENNIAL REPORT

OF THE

# State Board of Health

FOR THE

Years Ending September 30, 1915, and September 30, 1916



OLYMPIA, WASH.

FRANK M. LAMBORN PUBLIC PRINTER

1916

# STATE OF WASHINGTON, OFFICE OF THE STATE COMMISSIONER OF HEALTH.

SEATTLE, WASH., October 1, 1916.

To Hon. Ernest Lister, Governor of Washington:

SIE: In compliance with Section 2 of an act to create and establish a Board of Health and Bureau of Vital Statistics in the State of Washington, I have the honor to present to you the accompanying report for the biennial period ending September 30th, 1916.

Respectfully,

THOMAS D. TUTTLE,
State Commissioner of Health.

# MEETINGS OF THE BOARD.

During the biennium the State Board of Health has held four meetings.

The first meeting was held at Olympia, January 29th, 1915. At this meeting Dr. Eugene R. Kelley, who so faithfully, thoroughly and energetically performed the duties of State Commissioner of Health from October 1st, 1911, to February 28th, 1915, submitted his resignation as State Commissioner of Health, he having been tendered a more lucrative position in public health work in Massachusetts—a position tendered him in the nature of a compliment to his efficiency as a health officer. Dr. Kelley submitted his resignation to take effect the 28th of February, 1915. His resignation was accepted with sincere regret on the part of each member of the State Board of Health.

The calling of Dr. Kelley from the State of Washington to Massachusetts, brings to our attention the fact that competent, efficient health officers are not very abundant—a fact that was further brought to our attention in June of 1916, when Dr. Thomas Tetreau, health officer of Yakima county and of the city of North Yakima, was called to take a position as health officer in the city of Portland, Maine. It would appear, therefore, that the State of Washington has been successful in training health officers but possibly on account of lack of sufficient appropriation to carry on the work, it has not been so successful in retaining them.

At this meeting the office of Commissioner of Health of the State of Washington was tendered to and accepted by Dr. Thomas D. Tuttle, of Helena, Montana.

At this time Dr. Fred R. Hedges of Everett, was elected president of the Board.

The next meeting of the State Board of Health was held in North Yakima, September 22d, 1915. At this meeting the general work of the Board was discussed but there were no changes in the rules and regulations of the State Board of Health.

The next meeting of the Board was held in Olympia, January 20th, 1916. This being the annual meeting, Dr. Elmer E. Heg was elected president for the ensuing year.

The Board endorsed a bill before Congress providing for a National Leprosarium, and also a bill providing for Federal aid in the care of non-resident tubercular subjects.

An urgent call from the States of California, Utah and Oregon, asking for a meeting of representatives of the Western States with the U. S. Public Health Service to be held at Salt Lake City, to consider ways and means to prevent the spread of rabies in these states, was presented and the secretary was instructed to attend such meeting.

The next meeting was held on July 10th, at Seattle. At this meeting the question of control of infantile paralysis was discussed and the regulations relative to this disease were changed to read as follows:

- 12. Infantile paralysis or Anterior Poliomyelitis.
- (a) All cases of anterior poliomyelitis or infantile paralysis shall be handled according to the rules governing cases subject to quarantine.
- (b) The patient shall be subject to quarantine for not less than eight (8) weeks from the beginning of the illness.
- (c) All persons exposed shall be subject to quarantine for at least ten (10) days from date of last exposure.
- (d) When in the opinion of the health officer it may be advisable, he may order any case of anterior poliomyelitis or infantile paralysis removed to an isolation hospital.

The commissioner was authorized to attend a meeting of health officers from Washington, Oregon, California, Idaho, Montana and British Columbia, to be held at Portland, Oregon, on July 15th, to provide uniform regulations for the prevention of the introduction of this disease by travelers from Eastern states.

The question of measures to be introduced at the coming session of the legislature was discussed and it was agreed that a bill providing for the whole-time health officers be introduced, and also that a bill providing for the protection of the streams of the state, known as the "water and sewerage" bill, which was introduced at the last legislature, be again introduced at the coming legislature in the same form as introduced two years ago.

# COMMISSIONER'S REPORT.

During the year ending September 30th, 1916, there have been no serious outbreaks of disease in this state. The work of the health department has been devoted to the prevention of such outbreaks and to the reduction in the number of cases of communicable diseases that occur more or less frequently but not in epidemic form.

The nearest approach to an epidemic that we have had, and which was really an epidemic, was an outbreak of measles in the cities of Spokane and Seattle in the early months of 1916. During the first six months of 1916, there were 10,000 cases of measles reported in the state; of these, over 8,000 were reported from the cities of Seattle and Spokane. With this large number of cases reported from these two cities, there were only 17 deaths—8 in Seattle and 9 in Spokane. This would indicate that the cases were pretty thoroughly reported, and the effect of such thorough reporting of this disease is illustrated by the fact that it did not spread to any great extent beyond these cities. Had the cases not been reported, the disease would undoubtedly have spread to an alarming extent over the entire state.

The work of the state health department during the biennium has consisted in a constant effort to hunt down and remedy insanitary conditions in the state, and to educate the people relative to the prevention of disease. The effect of this work is illustrated by the fact that in 1913 there were 708 deaths from the principal preventable diseases; namely, scarlet fever, diphtheria, typhoid fever, measles, whooping cough, and diarrhea or enteritis in children under two years of age, as against 386 deaths from these same diseases in 1915, or, a saving of 322 lives in a single year. And this does not represent the entire saving, as there has, undoubtedly, been an increase in the population between 1913 and 1915, and with such increase in population we would naturally expect a proportionate increase in the number of deaths.

The saving of lives is not the only matter to be taken into consideration. Without regard to the value of a human life, there is an actual monetary side to be taken into consideration. We do not know what the average cost of the various diseases may be, but we do know what the actual cost of typhoid fever is. We know that every case of typhoid fever in an adult costs somebody, either the individual or the county, not less than \$300.00 in loss of time, doctor's hire, nurse's hire, hospital fees, In 1913 there were 138 deaths reported from typhoid fever in this state. We know that all cases were not reported, but we can accurately estimate the number of cases that existed. For instance, two epidemics of typhoid fever have been carefully studied in the State of Washington, and it was found that in these epidemics, where every case was traced down, that the typhoid fever death rate amounted to about 8 per cent. of all cases. However, if we take the general average for deaths from typhoid fever throughout the United States, namely 10 per cent, our deaths in 1913 would indicate that there were 1.380 cases of typhoid fever in the state during that year, which at a cost of \$300.00 per case, would mean that the people actually expended \$414,000.00. In 1915 there were 121 deaths from typhoid fever, which would indicate that we had during 1915, 1,210 cases, which at \$300.00 per case would mean that the people of this state, individually or collectively, expended \$363,000. The saving in this disease alone for 1915 was \$51,000.00. Typhoid fever can be absolutely prevented, but it takes work to accomplish this, and work means money. The question, then, comes down to a simple one of profit and loss.

In 1915, as stated, this one disease cost the people of this state \$363,000.00. The question then is, how much will it cost to prevent this loss? Is it a business proposition to fight this disease and, at the same time, fight other diseases that are preventable? Considerably less than one-half the money that is being lost annually on account of typhoid fever alone, if properly expended, would practically eradicate this disease from our state and, at the same time, eliminate epidemics of all other preventable diseases.

For more detailed report in this matter, see report on communicable diseases.

#### EXHIBITS.

For several years it has been customary for the State Board of Health to have a public exhibit at the Washington State Fair, held at North Yakima. Such an exhibit was installed at North Yakima in 1915, but it was the opinion of the commissioner that it being impossible to prepare a new exhibit each year, to repeat the same exhibit, or practically the same exhibit yearly, was not a good business investment. Therefore, no such exhibit was prepared for 1916. We are working on an entirely new exhibit and hope to have it ready to present at the various county fairs in 1917.

### PUBLICATIONS.

The State Board of Health has for several years published a quarterly or monthly bulletin. This bulletin was intended to supply the people with information relative to means by which health might be preserved and data showing the sanitary conditions in various parts of the state.

There were 3,500 names on the mailing list for this bulletin. In April, May and June of 1915, a return card was inserted in each bulletin sent. This card notified the addressee that our mailing list was being revised and if he desired the bulletin continued to his address, it would be necessary for him to fill out and return the card. We received 350 return cards, thus indicating that out of 3,500 people receiving the bulletin, only 350 were reading it. It was therefore apparent that proper returns were not being received for the effort and money expended in this line. The bulletin was accordingly discontinued.

The commissioner then prepared a pamphlet setting forth information relative to the care of the young infant. This pamphlet is sent to every mother upon receipt of a birth certificate of the child. In this way the information goes into the hands of those who are particularly interested in this subject. We receive about 2,200 birth certificates per month at present,

thus indicating that 2,200 mothers receive this bulletin each month. From letters received by us from mothers, we believe the bulletin is proving of value to the people of the state.

In October we prepared a bulletin relative to Rural Sanitation. This bulletin has been sent to 10,000 farmers in the state. From letters received we believe this pamphlet is bringing good returns in the matter of improved sanitation on the farm.

After discontinuing the monthly bulletin published by the State Board of Health, we issued a weekly bulletin to the newspapers of the state. In this bulletin we aim to set forth in a very few words pertinent points relative to the preservation of health. These bulletins were sent to all papers in the state weekly for three months. At the end of three months we wrote to the editors of the papers asking them if they were using the bulletin and if they desired it continued to their address. One hundred and twelve papers notified us that they were publishing these weekly bulletins more or less regularly. We believe in this way a far larger number of people are reached than would be reached through the pamphlet method.

In addition to the above, frequent special bulletins have been gotten out, such as a leaflet on camp sanitation and other leaflets of interest to special industries.

# DEPARTMENTAL WORK.

The work of the State Board of Health is divided into four branches or departments, namely, Epidemiological, Vital Statistics, Sanitary Inspection and Laboratory. Naturally the work of each department interlaces with that of the other departments. For instance, when the sanitary inspector goes to a locality to make an inspection of sanitary conditions he also looks into the work of the vital statistics department in each locality. When the epidemiologist goes to a district on account of communciable diseases, he looks into the question of vital statistics and the sanitary conditions in such locality.

## EPIDEMIOLOGICAL DEPARTMENT.

This branch of the work has been under the direct supervision of Dr. V. J. Capron. The department is a new one provided for by the last legislature, and has, naturally, not reached the degree of efficiency that we justly anticipate. However, the foundation has been laid for a complete and efficient Epidemiological Department, and this foundation has been strengthened by a combination with the United States Public Health Service, resulting in the appointment of a collaborating epidemiologist. The title given to this official would indicate a greater degree of importance than may be attached thereto. Nevertheless, it is of great assistance to the department, showing confidence on the part of the United States Public Health Service in the conduct of the office, and, at the same time, supplying us with "franked" postal cards and stationery for securing information of interest to the Federal service, which information is of an identical character with that desired in our state department, thus saving considerable in our postal expenses.

The work of the epidemiologist is nominally that of tracing down the source of infection of communicable diseases, but practically his work involves the whole question of securing complete reports of those diseases, as no outbreak can be properly traced without complete reports of all cases. As a result of the work of this department communicable diseases are being much more thoroughly reported in the state than during previous years.

The epidemiologist also has direct supervision of the work of the laboratory, although it is not his function to perform the laboratory work.

# SANITARY INSPECTION.

This department is under the direct supervision of Mr. T. R. Wilber, who has been with the Board of Health of Washington for a number of years, and his work is sufficiently well known to require little comment. Mr. Wilber has not only proven a competent sanitary inspector but he possesses the

peculiar characteristic that enables him to secure the cooperation of those with whom he comes in contact; he possesses that peculiar aptitude which almost results in a feeling of gratitude on the part of the defendant against whom he has filed a complaint and successfully prosecuted. In addition to his work as sanitary inspector, the field work in the vital statistics department—that of hunting down births and deaths that have not been reported, and keeping the local registrars posted in the work required of them and seeing that their duties are properly performed—has largely devolved upon Mr. Wilber.

# VITAL STATISTICS DEPARTMENT.

The work of the vital statistics department has been under the supervision of Myrtle V. Goodman, who holds the title of deputy registrar of births and deaths. Her work has been entirely clerical in this matter and requires constant attention. To perform this work efficiently necessitates long training, a training that Miss Goodman has as a result of many years association with public health work in Washington.

# LABORATORY DEPARTMENT.

Prior to 1915 the work of the laboratory was conducted on a part-time basis, Dr. E. P. Fick devoting part of his time to this work and being given an untrained assistant in the laboratory.

In May, 1915, we secured the services of Dr. Maria K. Schuhmeister, who devotes her entire time to this department, Dr. Fick being retained as consulting bacteriologist. By such an arrangement the efficiency of the laboratory has been greatly increased. However, lack of funds, has prevented our extending the scope of the work as it should be extended.

#### COMMUNICABLE DISEASES.

During the two years under consideration we have had no serious outbreaks of any communicable diseases, but we have had more or less of these diseases present all the time, and it is against this endemic form of disease that our fight must be concentrated in order to protect our public health.

There are seven principal diseases against which we wage constant war. Six of these are of an acute character and should be promptly eradicated. These diseases are: typhoid fever, scarlet fever, measles, whooping cough, diphtheria, and diarrhea and enteritis in children under 2 years of age.

In Table I we present a statement of the total number of deaths from these diseases, arranged according to counties and the 3 principal cities of the state. You will note that the number of deaths from these diseases, without regard to the increase in population, has been reduced from 830 in 1911 to 386 Using the census bureau's estimate of population, in 1915. they have been reduced from 69.1 per 100,000 population, to 27.6 per 100,000 population; but the question of population always being one of doubt, we prefer to note the reduction as based on the per cent. of deaths from all causes represented by the number of deaths from preventable diseases, and using this basis, we find that in 1911 preventable diseases caused 7.6 per cent. of all deaths in the state. This fatality has gradually been reduced until in 1915 these six preventable diseases caused only 3.2 per cent. of all deaths in the State, or a gain of 4.4 per cent. over the total number of deaths in the state as a result of public health measures; or an actual saving of 520 lives in the single year of 1915.

On page 15 we present the gain over communicable diseases in graphic form. The large column represents the per cent. of all deaths in the state represented by the number of deaths from communicable diseases. The smaller columns, the combined length of which will equal the length of the large column, shows the proportion represented by each disease.

Starting in 1911, we find that diphtheria represents the greatest proportion of the four lesser diseases. In 1912, diphtheria has come down to a level with whooping cough. In 1913 it has gone down below measles, and from this time on the per cent. of deaths from this disease has remained practically stationary. Measles and whooping cough show some improvement, but their improvement is not as great as it should be.

We are constantly confronted with the statement that children must have whooping cough and measles. It has only been a few years since that same statement was made with regard to scarlet fever, and yet we find today that our people have discovered that it is not necessary to have scarlet fever, and, as a result, the number of deaths from this latter disease have been reduced to a minimum; and as soon as our people will wake up to the fact that it is no more necessary for a child to have measles or whooping cough than it is for him to have scarlet fever, then and not until then can we eradicate these two diseases.

We have stated that a gain has just been made in these two preventable diseases. Now let us see just where we stand with regard to each of them, as well as other communicable diseases.

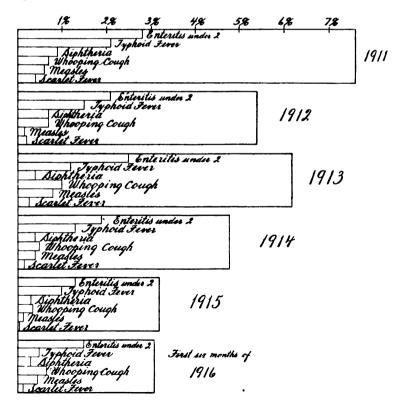


Table I.

TOTAL DEATHS FROM SIX PREVENTABLE DISEASES.

COUNTIES	Deaths 1911	Deaths 1912	Deaths 1913	Deaths 1914	Deaths 1915
Adams	9	7	6	4	4
Laotin	4			7	7
Benton	9	3	2	4	16
Melan	17	8	14	10	17
laliam	5	1	6	5	2
Jlarke	22	16	19	13	9
Odumbia		5	5	8	5
Owlitz	8	8	4	7	
ouglas	4	1	7	13	7
erry	2	5	1	6	<u>.</u>
ranklin	1	2	4	8	2
Parfield	8	4	8	1	5
Frant	_6	8	4	5	5
Prays Harbor	81	20	27	20	12
sland	1	2	1		
efferson	•••••	2	4	8	
King	80	19	29	20	10
itsap	15	4	11	8	6
dititas	28	10	15	19	10
ilickitat	5	.8	. 3	5	8
AWS	29	25	88	36	6
incoln	10	9	8	6	11
(ason	2	8		1 7	1 6
)kanogan	8	4	15		
Pacific	9	18	. 8	8	3
Pend Oreille	7	2 19	1 31	17	5
Perce	2	19	1	17	9
kagit	17	18	15	8	8
kamania	11	1	15	2	•
kohomish	42	25	84	25	11
bokane	19	11	17	11	9
tevens	ii	8	8	17	8
Churston	8	7	9	s s	5
Wahkiakum		2	•	ı	8
Walla Walla	20	25	21	18	16
Whateom	15	27	25	15	19
Whitman	30	19	24	26	15
akima	80	24	30	33	23
	-			"	_
CITIES—				1	1
Seattle	145	90	183	79	36
pokane	119	64	61	60	57
lacoma	61	85	63	25	18
Totals	880	550	708	545	386
Deaths per 100,000 population	69.1	43.0	52.8	88.7	27.
			0	ı''	

# INFANTILE PARALYSIS.

This disease prevails more or less constantly throughout our country, but at frequent intervals it assumes epidemic character and under such circumstances becomes one of our most dangerous enemies, not only in the matter of causing deaths, but in the unfortunate results to those who recover.

In the spring of 1916 this disease became epidemic in the city of New York and has continued so up to the present time, spreading from the city of New York throughout the state of New Jersey and Pennsylvania, and at this time is assuming epidemic proportions in Illinois and in some other portions of other states.

Realizing the danger of this disease invading our western states in epidemic form, a meeting of state health officers of the states of California, Oregon, Idaho, Montana, Washington and the Province of British Columbia, was called to meet in Portland Oregon, July 15th, 1916, for the purpose of adopting uniform means of preventing the introduction of infantile paralysis into these states.

Our principal danger, naturally, came from travelers entering our states from infected points. We, therefore, requested the railway companies to notify us of any passengers on their train coming from any state where infantile paralysis prevails, and also to notify us of any children on their train that might appear to the conductor to be sick, regardless of what might be the character of the sickness. Such sick child to be reported to the health officer at point of destination and kept under observation. All passengers from points where infantile paralysis prevails were reported to the health officer at point of destination and kept under observation for a period of 20 days.

The railroad companies cheerfully and willingly gave us every cooperation in our efforts to prevent the introduction of this disease, and up to the present time no more cases of infantile paralysis have been reported in the State of Washington during the year 1916 than were reported during the year 1915, which certainly indicates that the infection has not yet entered our state.

On the 12th of August, 1916, the surgeon general of the U. S. Public Health Service sent a telegram addressed to all state health officers, earnestly requesting representation at a

meeting to be held in Washington, to consider ways and means to prevent the spread of infantile paralysis throughout the country. At this meeting it was a surprise to me to find how much at variance the various requirements were in the eastern states. Each individual locality had authority to, and actually did, promulgate its individual requirements with regard to passengers coming into or leaving the locality, with the result that the New York & New Haven R. R .- a road that would be very short in our western states-showed me 30 different requirements that they had to consider in accepting passengers on their road; thus it was almost impossible for the railroad conductors to know just what was required. It seemed quite as much of a surprise to them that five states and one British Province could get together, formulate and adopt one simple set of regulations. And yet, we feel that it is through the simplicity of these regulations that infantile paralysis has been kept out of our state thus far.

At this point I wish to publicly thank the health departments of Seattle and Spokane for their earnest efforts and willing cooperation in keeping infantile paralysis out of their cities, and by so doing keeping it out of the state. Had these departments not shown this willingness to lend every effort within their power towards the preservation of the health of the people, not only of their cities but the state, your State Board of Health would have found itself financially embarrassed in meeting the situation.

At this time I also wish to express our hearty appreciation to the officials of the various railroads operating in this state, and to their employees, for their earnest cooperation in our efforts to guard the health of the people of the state.

While infantile paralysis has not made its appearance in Washington this year in epidemic form, we must not feel that we are safe. Indeed, experience teaches us that next year is more apt to find us confronted with this disease in epidemic form than is the present year, as it requires ordinarily about a year for such a disease to extend across the continent. We must

therefore be prepared for an emergency during the coming biennium, and we earnestly recommend that an emergency fund be provided, to be used on order of the Governor, in case the state is confronted with any epidemic disease, or with any other problem that cannot be anticipated.

# DIPHTHERIA.

Diphtheria is one of the preventable diseases that we know a great deal about. We know just exactly what causes this disease, how it is carried, and how it is transmitted. Knowing these things we know how it can be prevented.

In Table II, I present the number of cases and deaths from diphtheria for the years 1911 to 1915 inclusive, arranged by counties and the three principal cities. I ask that you note the gradual improvement in the number of cases reported in proportion to the number of deaths. It would seem that this disease is very well reported in our state, and with complete reports of any communicable disease its spread can be prevented.

That we have a very good control over this disease in Washington is indicated by the fact that diphtheria causes 1.3 per cent. of all the deaths in the United States, whereas, in the state of Washington is causes only 0.3 per cent. of all deaths. number of deaths from this disease has been reduced from 101 in 1911, to 38 in 1915, or from 0.95 per cent. to 0.8 per cent. of all deaths. This is probably as low a death rate from this disease as can be secured under present conditions. In order to further reduce the ravages of this disease, it is necessary to hunt out carriers, for we know that this disease is spread by people who are not sick but who carry the germs in their throats. In order to hunt out these cases it is necessary that we have health officers and nurses devoting their entire time to public health work, who can take cultures from the throats of school children and from the throats of other members of a family where there is or has been diphtheria and thus find the sources of infection. We have gone as far with this disease as it is possible to with part-time health officers. To complete the work we must get down to a scientific basis.

Table II.
DIPHTHERIA.

GOVERNI PO	19	11	19	12	19	13	19	714	19	15
COUNTIES	Cases	D'ths	Cases	D'ths	Cases	D'ths	Cases	D'tha	Cases	D'the
Adams Asotin Benton Chelan Clallam Clallam Columbia Cowlitz Douglas Ferry Franklin Garfield Grant Graps Harbor Laland Jefferson King Kitsap Kittas Kitsap Kittias Lincoln Mason Okanogan Pacific Pend Oreille Pierce San Juan Skagri Skamania Snohomish Spokane Stevens Thurston Wahkiskum	7 4 2 2 5 16 10	1 1 1 1 1 1 2  1  8 4 1 1 1 1 1 2 2 2 1 1 1 2 2 1 1 1 1 1 1	3 	1 1 1 8 1 1 1 1 2 2 3 8 2 2 1 1	3 5 4 3 7 4 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 9 9 15 1 10 84 4	1 1 1 5 5	3 1 2 2 43 1 1 2 2 1 3 3 7 5 13 2 2 2 2 2 3 12 8 4	1
Walla Walla Whatcom Whitman Yakima	18 29 40 58	1 2 10	10 27 1 14	1 1 8 2	26 7 18	1 1 2	5 5 5 25	2 1	18 7 8 8 8 28	1 1 1 1
CITIES—	279		224		268			_		١.
Seattle	106 181	9 9	66 96	11 6 7	47 49	18 1 6	158 65 48	7 4 2	71 81 29	7 1
Totals	942	101	686	68	599	48	459	44	389	38
Deaths per 100,000 population		8.4		5.8		8.2		8.1		2.5
Per cent. deaths from all causes		0.9		0.7		0.4		0.4		0.8
Patality	1	0.7		9.7		7.2		9.5	•	9.7

Per cent. of all deaths in registration area in 1913—1.3. Per 100,000 in registration area in 1913—18.8.

### WHOOPING COUGH.

Whooping cough is ordinarily considered one of those diseases that children must have. It has been found that it is not necessary to have scarlet fever; neither is it necessary to have whooping cough. But, we are told "whooping cough does not amount to anything," and yet, whooping cough causes more deaths year in and year out in the State of Washington than does diphtheria. This is not true for the average throughout the United States, diphtheria causing 1.3 per cent of all deaths in the United States, while whooping cough causes 0.7 per cent of all deaths; but in Washington diphtheria causes 0.3 per cent of all deaths and whooping cough 0.36 per cent of all deaths, often going as high as one per cent of all deaths.

In Table III we present the number of deaths from whooping cough and cases reported in 1911 to 1913 inclusive, arranged according to counties and the three principal cities.

Table III.
WHOOPING COUGH.

00437444700	19	11	19	12	19	13	19	14	19	15
COUNTIES	Cases	D'ths	Cases	D'ths	Cases	D'ths	Cases	D'ths	Cases	D'th
Adams	85		1	1	1					
Asotin			<del>.</del> .	<u>-</u> .					7	
Benton			١	ļ	. <b>.</b>	1			89	
Chelan				1	1 1		<u></u> -	• • • • • •	3	1
Clallam	•		. 4	····i	15	6	15 5	2	••••	;
Columbia			14	1 1	8	ı	29	. 2	9	-
Cowlitz			3		l	·			·	
Douglas	2		4		10	1			1	
Ferry			20					3	1	
Franklin	2				<b> .</b>	1		1		
Garfield			20	1	J	ļ			6	• • • • •
Grant	2	6	····ii	····i	2	2		7	20	
Island	z		11	l i	ĺ	i		'	6	
Jefferson	3		٠	l <del>.</del> .	18	l î	10		3	
King	5	6		2		7	37	4		
Kitsap		1	31	2				١		
Kittitas	1	1	3	2		2	46	8		
Klickitat		i	б	2	8	2		7		
Lewis	2	1 1	2	•	30	4	2	i	7 8	
Mason	2	····i	. 8	l····i	5	•	ا ا		49	i · · · · · ·
Okanogan	l	ļ <del>.</del> .	:	l <del>.</del> .	_ ق	1		2		
Pacific			1	7		1	2	l		١
Pend Oreille			1		2	1		• • • • •	16	1
Pierce		· · · · <u>·</u> ·	16	8	30	7	7	3	] 3	
San Juan	8	1		5		4	20		2	
Skagit				l ĭ	l	•	ļ		Z	
Snohomish		3	8	1	6	4	i	5	2	
Spokane		l	4	l <del>.</del> .	15	3	l <del>.</del> .	2	17	
Stevens	ļ	1		1	29	. 4		!	10	
Thurston	¦ • • • • • •	1		1		2		1		1 :
Wahkiakum		3		8						····.
Walla Walla		3	11	6	7	7	4	1 1	3	
Whitman	15	8	43	2	l	ļ	21	l	34	3
Yakima	20	13	32	2	8	1	6	2	7	l [']
	į			1	ŀ				l	1
CITIES—	1			i	ł		l		l	!
Seattle	137	20	188	6	298	32	205	10	490	1 4
Spokane		11	85	6	203	10		[ <u>.</u> .	1,060	10
Tacoma		4		5	4	7	• • • • • •	1	12	1
Totals	302	76	464	71	695	114	410	60	1,859	48
Deaths per 100,000 population	<u>                                     </u>	3.8		5.5	<u> </u>	 3.5		1.3	،	' !.9
population	l'	<del>.</del>	<u>`</u>		l		<u>'</u>			
Per cent. deaths from all	l		[		l		1		l	
causes	(	).7	(	).7	] 1	1.0	0.5		0	.36
Fatality	9:	5.1	۱,,	5.0	14	3.4	1,4	.6	، ا	2.3

Per cent. of deaths in registration area for 1913, 0.7. Per 100,000 population in registration area for 1913, 10.0.

# MEASLES.

This is another disease that is considered necessary, and yet we know that in only two of the years under consideration has the death rate from this disease in the State of Washington been as low as that from diphtheria. The same remarks apply to measles as apply to whooping cough.

In Table IV we present the number of cases and deaths from measles reported in 1911 to 1915 inclusive, arranged according to counties and the three principal cities.

Table IV. MEASLES.

COTINETES	19	11	19	12	19	18	19	14	19	15			
COUNTIES	Cases	D'ths	Cases	D'ths	Cases	D'ths	Cases	D'ths	Cases	D'tha			
Adams	8 2 40	1 2	5		1 2	1	4		275 280	1			
Ohelan Ciallam Ciarke Columbia	55 5 11 45	6 4	56 		10 245 18 251	2 1	9 1 169 182	1 i	4 4 7				
Cowlitz Douglas Ferry	1		8		81 2	2	18 1	2 3	6 1				
Franklin Garfield Grant Grays Harbor	6 16 8	2	148 21 1	1 1	2 4 12 48	8	63 4 6	2 1	5 12				
Island Jefferson King Kitsap	14 10 106 48	1 1 2	20 17		26 77 85	 1 6 8	40 8 6 181		56 15 6				
Kittitas Klickitat Lewis Lincoln	23 2 88 79	2 1	8 2 7		6 1 57 81	2 2	18 48 19	1	1 2 3 6				
Mason Okanogan Pacific Pend Oreille	20 14 252 12	2	30 8 8	1 1	6 12		20 78 2	2	8				
Pierce San Juan Skagit Skamania	56 15 5	• • • • • • •	8 8 2	i	125 6 17 15		1 12 2		20 1				
Snohomish Spokane Stevens Thurston	119 142 4 8	1 1 1	14 141	1	128 31 8	2 2 1	825 57	4 3	19 18 30				
Wahkiakum Walla Walla Whateom Whitman	6 2 8 78	1 4	77 19	1	129 269 48	7	14 78 10 187	1 1 6	4 6 37 20				
Yakima CITTES— Seattle Spokane Tacoma	81 2,275 878 54	10 5 4	420 1,188 18	1 7 1	471 2,274 237 643	2 28 1 16	521 825 1,408 23	6 2 9 1	336 313 23				
	4,546	64	2,382		5,865	92	4,381	49	1,486	1			
Deaths per 100,000 population	5	.8	1.8		1.8		6.1 8.		8.4			1.1	
Per cent. deaths from all causes	0	.6	0.16		0.16		0.16 0.8		0.8 0.4		.4		0.13
Fatality	1	.4		.6	1	1.7 1.1		.1		1.1			

Per cent. of all deaths in registration area, 0.9. Per 100,000 population deaths in registration area, 12.8. 1918 unusually high year.

#### SCARLET FEVER.

Our people have learned that it is not necessary for children to have scarlet fever. The result is that the per cent of deaths from this disease has been greatly reduced from 0.4 per cent in 1911, to 0.06 per cent in 1915.

If such results can be secured in scarlet fever, equally good results can be secured in measles, whooping cough, diphtheria, typhoid fever, or any other preventable disease.

In Table V we present the number of cases and deaths from scarlet fever in 1911 to 1915 inclusive, arranged according to counties and the three principal cities.

Table V. SCARLET FEVER.

COVENIANO	19	711	19	12	19	13	. 19	. 1914		15		
COUNTIES	Cases	D'tbs	Савев	D'ths	Cases	D'ths	Cases	D'ths	Cases	D'ths		
Adams Asotin Benton Chelan Clallam	16 39 7 19	1	1 1 21 16 26		1 1 12 17	3	19	1	9			
Clarke Columbia Cowlitz Douglas Ferry Franklin	55 38 6 1 34	5	57 5 1 6 2	5	20 1 15 4 1	2	17 1 22 22 22 4	3	9  29 7	1		
Garfield Grant Grays Harbor Island Jefferson King Kitsap	16 5 101 5 16 79	6 2 3	27 7	2	11 5 19 5	1	2 8 15 14	1	16 12 5 43			
Kititas Kiekitat Lewis Lincoln Mason Okanogan	28 10 4 83 12 1	1 3	22 4 51 2	1 2	18 25 36 8 5	3	11 15 31 7	2		1		
Pacific Pend Orellie Pend Orellie Pierce San Juan Skagit Skamania Snohomish	5 7 44 1 22 1 25	1 1 1	5 4 8 4 1 45	1	6 1 12 5 8 88	2	30 16	1	16			
snonomism spokane Stevens Thurston Wahkiakum Walla Walla Whateom	80 10 17 13 27	1 1 1 1 1	29 6 34 5 3 25		20 7 2 20 77	1	29 12 10 1 10 7		19 5 4			
Whitman Yakima CITIES— Seattle	35 39 265	6	28 19	2	33 18	1	27 59		3 58			
Spokane	208 130	7 8	93	2 2 1	79 85	6 7 8	156 191 59	3 2 1	141 84 52	- ;		
Totals  Deaths per 100,000	1,569	52	776	23	811	30	785	22	689	7		
population	0.4			.8		0.26	0.18		<u> </u>			0.5 0.06
Fatality		3.8		.9	3.7 2.8					1.0		

Per cent. of all causes in registration area, 0.6. Per 100,000 population in registration area, 8.7.

#### TYPHOID FEVER.

The prevalence of typhoid fever may be considered an index of the sanitary conditions of any locality. How prevalent this disease is in the various portions of our state is indicated in Table VI.

The State of Washington occupies the enviable position of having a remarkably low death rate. This low death rate is a valuable asset to the state. Its value is beyond estimate. The value of this asset will increase as it becomes more thoroughly recognized. As evidence of the recognition now given to our low death rate, your attention is respectfully called to the report of Mr. Louis I. Dublin, on page 63 of this report; and as to the efficiency of your State Board of Health in the matter of preventing sickness and death, you are respectfully referred to the report of Dr. W. A. Evans, on page 41 of this report.

All young and sparsely settled states have a low death rate. As the population increases and the country becomes more densely settled, the death rate will increase, unless the efforts on the part of the people to maintain sanitary conditions are increased in the same ratio as the population increases. The question, therefore, is "Will Washington maintain her low death rate?" Not "Can Washington maintain her low death rate," for she can if she will.

During the last five years typhoid fever has been materially reduced in this state. In 1911 typhoid fever caused 2.1 per cent of all deaths in the state, whereas, in 1915 it caused only 1 per cent of all deaths in the state. And yet, we do not show a remarkably low death rate from this disease. For instance, we find that in 1913 typhoid fever caused 1.3 per cent of all our deaths, whereas the average for the United States was 1.2 per cent. In other words, Washington was a little above the average in deaths from typhoid in 1913. But let us see what the death rate was from typhoid fever in some of the other states during 1913. We find that Indiana showed that 1.9 per cent of all her deaths were due to typhoid, while Massachusetts showed 0.52 per cent, Vermont 0.59 per cent, Kentucky 3.2 per

cent and North Carolina 3.4 per cent. Vermont, Wisconsin and Massachusetts are preventing typhoid among their people. Kentucky and North Carolina are, undoubtedly, not taking the proper sanitary precautions and are permitting their streams and water supplies to become contaminated and to remain contaminated. Indiana compares very favorably with Washington. While her per cent. of deaths from typhoid is slightly higher than Washington, it must be remembered that Indiana is a much older state than Washington and that her territory is much more thickly populated, thus furnishing greater opportunity for infection of her water supplies. As the State of Washington becomes more thickly settled, our streams and water supplies will become contaminated and our deaths from typhoid fever and enteritis and other bowel troubles will increase. Whitman county is today pretty well populated. If you will note the cases reported from this county and the number of deaths in proportion, you will have a fair idea of the increase in this disease with increased population. Our streams are not extensively contaminated today. They can be protected at a proportionately small cost, whereas our old eastern states have spent many millions of dollars trying to get the contamination out of their streams that was put there before the danger of pollution was recognized. This state has the advantage of our older states in possessing the knowledge relative to the danger of polluted waters, and she has the economic advantage of the older states in that she can now protect her streams at a nominal cost, whereas, the removal of pollution from a stream, once it is permitted to enter, becomes a very expensive problem.

At our last legislature a bill was introduced providing for the protection of the water supplies in this state. This bill passed the House with very little opposition but was never considered in the Senate, the Senate having adjourned before they reached this measure. We sincerely trust that this legislature will enact such a bill into law.

This report is intended to present to you cold-blooded facts and not to be considered as an advertisement of the work of the State Board of Health. If it were our intent to make the best possible showing in the work done, without regard to its actual influence, we would make our report entirely on the reduction

in deaths, as based on the estimated population of our state. This would indicate that the death rate per 100,000 population from typhoid fever has been reduced from 18.2 in 1911, to 8.2 in 1915. It is our desire to face the issue squarely, in order that we may realize what must reasonably be expected in the future and the efforts that must be made if Washington is to maintain her enviable death rate.

Table VI.

COUNTIES	19	11	19	712	19	713	15	714	19	15
	Cases	D'ths	Cases	D'ths	Cases	D'ths	Cases	D'ths	Cases	D'ths
Adams Asotin Benton Chelan Clallam Clallam Collare Cowiltz Douglas Ferry Franklin Garfield Grant Grays Harbor Island Jefferson King Kitsap Kittitas Kitchitat Lewis Lincoln Mason Okanogan Pacific Pend Ordile Pierce San Juan Skagit Skamania Snohomish Spokane Stevens Thurston Wahkiakum Walla Walla Whatcom										
Whitman Yakima CITLES— Seattle	12 169 199 258	8 29 27 41	12 76 149 137	5 7 21 21	21 115 142 68	8 4 14 10	13 88 94 98	4 5 22 17	86 104 62 74	6 14 9
Spokane	206 81	16	7	11	50	11	46	8	85	14 8
Totals	1,102	227	776	160	1,028	189	788	149	827	121
Deaths per 100,000 population	18	3.2	15	2.5	10	0.2	10	).5	8	3.2
Per cent. deaths from all causes	2	2.1	1	1.5	1	1.2	1	1.8	1	.0
Patality	20	.6	20	0.6	18	3.4	20	8.0	14	1.6

### DIARRHEA AND ENTERITIS.

This disease is a close relative of typhoid fever. It occurs in infants and is due to insanitary conditions.

Our death rate in this disease is much lower than that of the older states. That this low death rate is not entirely due to sanitary conditions is shown by the fact that our death rate from typhoid fever is not much if any lower than that of other states. Therefore, our climatic conditions must have much to do with the low death rate from enteritis, as it has to do with the low death rate in infants from all diseases. Our death rate from diarrhea and enteritis, considering the climatic conditions, is entirely too high. It can and should be reduced, but to accomplish this is a man's job and not a child's job, and it is an undertaking that requires the entire time, thought and effort of the men who are to accomplish these results.

In Table VII we present the number of deaths reported from this disease in 1911 to 1915 inclusive, arranged by counties and the three principal cities.

# Table VII. DIARRHEA AND ENTERITIS.

(Under 2 years)

COUNTIES	Deaths 1911	Deaths 1912	Deaths 1913	Deaths 1914	Deaths 1915
Adams Asotin Benton Chelan	4 2 2 4	5 1 2	2 1 5	2 3 5	2 6
Cialiam Clarke Columbia Cowiitz Douglas Ferry	1 1 1	2 3 1 1	2 8 2	1 3 4 2	1 4 4
Franklin Garfield Grant Grant Grays Harbor Island Jefferson	1 4 10	2 1 1 18	2 17 2	2 2 5	1 1 3 11
King Kitsap Kitsias Kititas Kickitat Lewis Lincoln Mason	13 4 15 3 9 2	9 2 5 5 3 2	10 6 5 1 14	13 1 3 2 7 8	5 5 3 4 4 2
Pacific Pend Oreille Pieroe San Juan Skagit	5 8 1 4 1 10	1 3 1 7	10 5 15 1	8 1 2	3 8 3
Skamania Snohomish Spokane Stevens Thurston Wahkiakum	18 5 2 2	6 4 5	1 15 6 2 1	2 6 5 4 1	5 4 2 2
Walla Walla Whatcom Whitman Yakima	5 6 13 19	9 10 9 13	6 13 14 21	10 6 16 19	4 9 6 8
CITIES— Seattle Spokane Tacoma	60 46 20	49 22 10	45 32 20	35 28 12	20 17 7
Totals  Deaths per 100,000 population	25.1	212	291	221	161
Per cent. of deaths from all causes	2.8	l	2.5		1

Per cent. of all deaths in registration area in 1913-5.8. Per 100,000 deaths in registration area in 1913-75.2.

# FIELD WORK.

During the biennium the State Board of Health has been called on to make numerous investigations relative to sanitary conditions and other matters pertaining to public health in various parts of the state. In addition we have been called upon to deliver public addresses relative to the preservation of health before various clubs, public meetings, etc. The total of this class of work amounts to the following:

Number	of	investigations relative to sanitary conditions	207
Number	of	investigations relative to vital statistics	175
Number	of	visits relative to questionable diagnosis	115
Number	of	investigations relative to water supplies	294
		public talks	

It is not advisable to set forth in detail all of the work done on each of these visits, but we submit herewith a few instances illustrating the character of the investigations made.

# INVESTIGATION OF TYPHOID FEVER IN DAVENPORT.

In March, 1915, we were notified that a number of cases of typhoid fever had developed in the city of Davenport, Lincoln county. Accordingly, the Commissioner went to Davenport to investigate conditions there.

The question of the milk supply being the foundation of the typhoid fever outbreak was immediately raised. It was found that the cases of typhoid did not follow the route of any single milkman, but cases occurred among the patrons of all dairymen supplying the city with milk, and that in no instance did the majority of cases appear among the patrons of any one dairyman, thus eliminating the milk problem.

A very casual observation of the water supply of the city indicated that their well was certainly open to pollution, and analysis of the water made at the laboratory of the State Board of Health showed that the water was polluted. Their water supply was pumped from a shallow well. The city marshal, who was also in charge of the waterworks, stated that the entire supply of water entered the well from the side opposite to that

along which a small creek flowed, said creek carrying the usual pollution of a creek flowing through a small town. While this might appear to be true, it was nevertheless evident to me that seepage might enter the well from the creek side, and in addition to this the main sewer line of the town lay between the creek and well, and a small break in the sewer could easily result in contamination of the well. At the time that this well was dug, another well located on the hill above went dry, and on investigation we found that the well that had gone dry when the city well was dug was now being used as a cesspool. In addition to this there were toilets and other sources of contamination on the hill above the well.

As an emergency procedure I advised the immediate installation of a hypochlorite treatment of the water. Upon request of the mayor of Davenport, Prof. W. F. Allison, of the State University, came to Davenport and installed a chlorine plant for them. This was advised as a temporary measure but its use is being continued and a new water supply has not been secured. The use of a hypochlorite plant, unless it is under the constant supervision of one who understands the importance of management of such plant, is not satisfactory, and as a result, cases of typhoid fever are more or less frequent in the town of Davenport.

This instance is simply another evidence of the importance of the enactment of the law asked for by the State Board of Health on several occasions; namely, a law giving the State Board of Health authority to absolutely condemn as impure a polluted water supply, and to protect from pollution the public water supplies of the state.

#### INVESTIGATION OF THE YAKIMA RIVER.

This problem has confronted the State Board of Health for a number of years. The Yakima river does not constitute the water supply of any city, but it is the natural water supply for the people living on the very extensive irrigation projects located along this water course, and while these people do not constitute a city or town, they are entitled to receive from the state protection of their water supply.

Into the Yakima river the sewage from Cle Elum, Ellensburg and North Yakima is discharged without any pretense of purification, thus polluting the waters to a high degree and endangering the health and lives of those who must depend on this supply for domestic purposes. And not only does it endanger the health and lives of the residents of this portion of the state but it is an especial menace to the stranger or the traveler. The residents of the community know that the water is polluted, but the stream is an unusually clear body of water and a stranger traveling through this district is apt to camp upon the banks of the stream and to use this water for drinking purposes. Under the existing laws the correction of such a condition proceeds extremely slow, as illustrated by the fact that a suit filed by the county commissioners of Yakima county against the city of North Yakima in the matter of pollution of this stream with sewage, is still pending, it not having come to a hearing of any nature whatsoever. The Yakima river should either be protected from pollution or declared a "sewage stream," and marked by signs along its course that its waters are not fit for human consumption.

# INVESTIGATION OF SANITARY CONDITIONS.—RAINIER NATIONAL PARK.

Rainier Park is a federal reserve and sanitary conditions therein naturally come under the supervision of the federal department. However, as so many of the citizens of Washington visit this park, I deemed it advisable to study the sanitary conditions on this federal reservation. Accordingly, in June, 1915, accompanied by Mr. Finney of the federal department, I visited Rainier Park and made a number of suggestions relative to comfort stations at camps in the park, and relative to establishing specified camping points at which comfort stations could be provided. These suggestions were accepted very promptly by the federal representative, and on visiting the park again in August, 1916, I found that every suggestion made by me had

been thoroughly carried out, so that today the people of Washington or of the United States can visit Rainier National Park with thorough assurance that they will be surrounded by sanitary conditions at all times.

#### LOGGING CAMP INVESTIGATION.

In August, 1916, a number of cases of typhoid fever developed in a logging camp near Sedro Woolley. This camp was kept in an unusually sanitary condition and yet 22 cases of typhoid fever developed among 125 employees, and all of these cases within a very short period.

The study of this outbreak was especially interesting. It presented a three-sided problem; namely,

1st. It was found that the water at the farm from which the milk supply was secured and which was used for washing the milk vessels was polluted.

2nd. It was also found that the water supply of the camp showed evidence of pollution and thus might be a source of infection.

3d. Finally, it was found that the cook at the camp was actually suffering from a case of walking typhoid.

Any of these three conditions might result in a severe outbreak of typhoid fever in the camp. However, on the 29th of August the milk supply was discontinued and all water used in the camp was boiled. The last case of typhoid fever developed on September 9th. It would appear therefore, that either the milk supply or the water supply was the source of contamination. However, a further study shows that out of 125 men at work in the camp about 45 of them lived at the camp all the time and secured all of their water for drinking purposes from the source supplying the camp, while about 80 of the men were employed at cutting timber some distance from the camp, and while employed on this particular cutting they secured their drinking water from another stream—a very small stream—and on investigation we found that the men had used the bank of this stream for toilet purposes. A further study showed that

of all the men developing typhoid, 19 of them were among the 80 employed on this last mentioned work, while only three of those who used only the camp drinking water developed typhoid, and these latter three might well be accounted for by contact with those who became infected away from the main camp.

A further study of the milk supply problem showed that milk from the same source had been used by a number of families and that none of them had developed typhoid fever. It would therefore appear that with three apparent and permanent sources of infection, the real outbreak occurred as a result of a condition least apparent of all, thus demonstrating the necessity of complete and thorough study in such problems.

# SANITARY SURVEY OF THE CITY OF CENTRALIA.

SEATTLE, WN., October 6, 1916.

Hon. John Galvin, Mayor, Centralia, Washington.

DEAR SIR: In compliance with your request of September 22d, I. together with Mr. T. R. Wilbur, Sanitary Inspector of this department, went to Centralia on October 2d, and conducted a sanitary survey of your city, as a result of which I have the honor to report as follows:

#### General Conditions.

It is but fair to the city of Centralia that I state at the outset that from a sanitary standpoint the city makes a very favorable showing indeed, being better than that of the average city of approximately 10,000 population. However, certain facts must be considered in connection with the condition found. It must be remembered that as a result of the epidemic of typhoid fever in 1913-1914, the city was given a very thorough cleaning and a complete and sanitary investigation, as a result of which practically every toilet within the city limits was connected with a sewer, if located in a sewer district, or placed in a sanitary condition. It is said that once a city is thoroughly cleaned. up it will remain clean. This is true only to a certain extent. A large portion of it, or a large per cent, of it will remain clean, but a small proportion will become careless and insanitary conditions will spring up at various points and endanger the whole population unless constant sanitary inspection is maintained. As a result of this, we noted in Centralia some "sore spots" that have resulted from the lack of constant observation during the last 18 months, or such matter.

## The Survey.

In our study of Centralia we went through each alley within the city limits, with the exception of a few blocks on the outskirts of the

city, said blocks containing only one or two houses to a block. In this survey we noted:

1st. The number of toilets in each locality not connected with a sewer.

2nd. The number of instances in which manure was improperly disposed of.

3d. The number of instances in which garbage was improperly cared for.

I submit herewith a spot map showing the number of each condition found: the red dots indicating toilets, the green dots points at which garbage was improperly disposed of, and the black dots points at which manure was improperly disposed of. The red dots do not indicate insanitary toilets in every instance. Some of them are in very good sanitary condition, but they do indicate the points at which there is danger from infection arising. The black dots indicate that manure is improperly disposed of. In several instances, however, properly constructed manure boxes were provided, but as an evidence of carelessness arising from lack of constant inspection, we found manure boxes standing wide open, even though they may have been provided with perfectly good tops. Under such circumstances a manure box is absolutely useless from a sanitary standpoint. Improper garbage disposal consisted in all kinds of makeshifts, from throwing garbage on the ground, open boxes, open leaky barrels, to properly constructed garbage cans, but without tops or with the tops left off.

Referring to the spot map submitted herewith, you will note that there are 298 red dots, indicating toilets not connected with sewers. Of these 37 are located in sewered districts. Your city ordinance provides that all toilets in sewered districts must be connected with sewer. Here are 37 instances in which your city ordinance is being violated. There are 139 green dots, indicating insanitary methods of disposing of garbage, and in all, 15 instances in which manure is improperly disposed of.

The dots are placed simply so as to indicate the block in which the condition was found and not intended to be placed on the particular lot, as this could be done only in the case of an engineer accompanying the inspectors and would have required several weeks in process of survey. However, they indicate sufficiently accurately for your police force to locate these conditions and see that they are corrected and that toilets are placed in sanitary condition in every instance.

One flagrant condition in the city of Centralia is the open ditch known as China ditch, running through the city. This ditch will ever be a dumping ground for the people living on or near it. Such action could be prevented only by the constant patrolling of the ditch at all times. While I realize this insanitary condition cannot be promptly corrected, it should be the aim of the city of Centralia, as soon as its financial condition will permit, to flume this ditch through the city.

In regard to the water question, and especially the connection at the Eton mills, we found the water used at the Eton mills to be identical with that used in the city, it being the overflow from the city water supply and is conducted to the reservoir at the mills and pumped from this reservoir. There is a connection, or means of connection would be a better expression, between the city water mains and the water mains at the mills. There is a valve at the end of the city main and another at the end of the mains supplying the mill. There is a pipe between these valves connecting the city water main with the mill mains. These two valves are constantly closed, but as an additional precaution a break is made in the pipe between the valves, which break is open at all times and would be closed only in case of a disastrous fire at the mill.

Samples of water were taken from the sanitary fountain at the mill, which fountain receives its water from the city water mains and from the pipe at a point before it empties into the mill reservoir, and from the pump after the water has been pumped from the mill reservoir. Bacteriological examination of all these samples show the same result, namely, that the water is all of the same character and none of it shows evidence of pollution.

It has been reported that the water from the mill pond is pumped into the mains at the mill. This is not true. There is a pipe provision, which is securely closed, whereby the mill pond water can be turned in to the mill reservoir in case of a fire at the mill of such gravity that the flow from the present supply would not be sufficient. This condition is identical with that of the city of Centralia, whereby water can be pumped from the old contaminated city water supply into the mains of the city supply in case of a disastrous fire in the city. Either of these unforeseen accidents would result in contaminating the water pipes, first of the mill in case it did not become necessary to use the city water supply; second, of the city water pipes in case it did become necessary to use the city water supply. In other words, should it become necessary to pump into your mains water from the old contaminated supply, your city pipes would be the first to become contaminated. In either instance there would be sufficient warning to enable your people to take proper precautions and boll the water until the pipes could be freed from contamination.

How can the city maintain a thoroughly sanitary condition? I take it that it is the aim of Centralia to not merely be "as good as other towns" but that you desire to maintain a strictly sanitary city at all times. In order to do this constant sanitary inspection is absolutely necessary. Naturally, the proper officer to make such inspection is your city health officer, but if I remember correctly, your budget provides for the enormous sum for salary of \$120.00 per year for your city health officer. One of the duties of the city health officer is that of registrar of births and deaths. The law provides that registrars of births and deaths, other than city health officers who are on constant

salary, shall receive twenty-five cents for each birth and each death properly recorded. This is just one-half of the fee allowed notary publics, and the work required for recording a birth or death is several times that required of notary publics in taking an acknowledgment. Hence, the fee allowed is certainly sufficiently small. In addition to the registration of births and deaths, your city health officer must receive and make reports of communicable diseases. Each report of a communicable disease requires considerable clerical work. In 1915 there were 230 births and deaths recorded in the city of Centralia. In other words, based on the small fee of 25 cents each for copying and recording a birth or death, your health officer earned \$56.00. Allowing the same fee for communicable disease reports, he probably earned in clerical work a like amount. Practically his entire salary is a salary for clerical work at a nominal fee. In addition to this he is supposed, and I use the word supposed advisedly, to investigate all communicable diseases, to establish quarantine, to disinfect, and to in general enforce the sanitary laws of the state and the city within his jurisdiction. With a salary of \$120.00, at least \$100.00 of which is earned by clerical work alone, you certainly cannot expect this health officer to make the sanitary inspections necessary to see that the "sore spots" noted on the accompanying spot map are corrected.

With your budget provision it would therefore seem to me necessary that this inspection be placed on your police department. If, as demonstrated, it is impossible for me to go through the alleys in your city in two days, would it be unreasonable to expect your police force to go through your alleys each week throughout the year and note the sanitary conditions found therein? It does not seem to me that this would be a prohibitive task and would serve the double purpose of acquainting the police force with conditions in your city, not only with regard to sanitary matters but with regard to fire traps, a number of which I noted in the course of our inspection. If in this work the police officer stops to discuss the subject with each householder where an insanitary condition is found, the task would be greatly multiplied. It seems to me that the proper course to pursue is when an insanitary condition is located, note the character of the insanitary condition and number of house, then notify the householder to come to the police station and explain why such sanitary condition is permitted, or take the consequence as provided by your city ordinances. It is not sufficient to survey the sanitary conditions simply within the sewered district. The words "sanitary sewer" is used advisedly. It is not merely a matter of convenience but a matter of sanitation. If, however, insanitary toilets are permitted within a sewered district, or within a district adjacent to a sewered district, then the sanitary sewer loses half; that is, it simply becomes a sewer without the sanitary. In unsewered districts the toilets should be kept in the most sanitary condition possible, and it is always possible and without great expense to make a toilet entirely sanitary.

I therefore recommend:

1st. That you publish a notice in your local papers warning the people that insanitary conditions with regard to toilets, garbage disposal and manure disposal will not be tolerated, and that after a given time any violations of the city ordinances in regard to these matters will meet with prosecutions.

- 2d. That you require your police force to patrol a given section of your city each day and report all conditions with regard to toilets, garbage, manure and other insanitary conditions, and also with regard to conditions that may result in fires. That the officer be required to report just what part of the city he patrolled, and that the city be so divided that the entire city limits be covered once each week by your police force. In making these inspections it is necessary that the officer follow the alley instead of the street.
- 3d. I respectfully suggest that you urge your people to support the bill providing for whole-time health officers and inspectors, which bill will be introduced at the coming session of the legislature. Such a bill would result in frequent sanitary inspections of your city by competent trained sanitary inspectors.

Respectfully submitted,

Commissioner.

These instances, I believe, sufficiently illustrate the character of the work undertaken in the study of insanitary conditions.

# WHERE DOES WASHINGTON STAND IN THE MATTER OF PUBLIC HEALTH WORK?

During the winter of 1914 and 1915, Dr. Carroll Fox, surgeon of the United States Public Health Service, made a study of the health work in the State of Washington. This study was made at the request of the State Board of Health. Dr. Fox's report is very comprehensive and goes into the subject very thoroughly.

Dr. Fox estimates that the State Board of Health of Washington should have an appropriation of one hundred and sixty thousand (\$160,000) dollars a year in order to perform thoroughly efficient work. The distribution of this fund, as recommended by him, is set forth in his report.

We have received several inquiries from other states relative to the benefit of such investigation by the Federal Department. To my mind this investigation is well worth while because it is made by a thoroughly competent officer, and one who is not in any way prejudiced for or against the work being done by any individual state. Such studies are going to be made whether we ask for them or not. They will be made by the Federal Government only upon request, but they will be made by others without request. As an illustration, during 1914 Dr. Charles V. Chapin of Providence, R. I., made a study under the direction of the American Public Health Association, of the work being done by the various state boards of health. In Dr. Chapin's report, this state is placed as 24th in the list of states as regards work being done by the Health Department. Dr. Chapin's report does not, however, take into consideration the funds supplied to the State Board of Health by the people of the state. It appears to me that this is an important matter for consideration. We cannot "make brick without straw." Neither can we do the efficient work on 1.08 cents per capita appropriation that other states can do with 10.0 cents or 15.00 cents per capita appropriation.

In May, 1915, Dr. W. A. Evans of Chicago, a thoroughly competent authority, reviewed Dr. Chapin's work and made the following report. The Commissioner can, without being accused of bragging, call your attention to Dr. Evans' findings with regard to the work of the State Board of Health of Washington, in proportion to the funds available, because this report deals with conditions prior to the present Commissioner's appointment. Dr. Evans' report is as follows:

# RATING OF STATE BOARD OF HEALTH. By Dr. W. A. Evans of Chicago.

If you live in Massachusetts, New York or Pennsylvania your health is well looked after, whether your home is in the city or rural district. If you live in a rural district in South Dakota, Missouri or Tennessee you had better look out for yourself, since your state government cares little whether you live or die, whether you get sick or keep well.

Such is the opinion of Dr. Charles V. Chapin, commissioner of health of Providence, R. I. This is no off hand opinion. Dr. Chapin was commissioned by the American Medical Association to make a comparative study of the various state health boards. He spent a year in making this study. He visited every state board except that of Kentucky. His report is issued by the American Medical Association.

This is the way he ranks the boards, 1,000 being perfect.

	is the way he tunned the boundary lyour boing portion	
1.	Massachusetts 7	45
2.	New York 7	30
3.	Pennsylvania 7	16
4.	Minnesota 5	74
5.	New Jersey 50	55
6.	Indiana 55	26
7.	Maryland 5	07
8.	Kansas 4	99
9.	Vermont 4	38
10.	Ohio 40	32
11.	Rhode Island 4	32
12.	North Carolina 4	11
13.	Virginia 30	)7
14.	Kentucky 3	93
15.	Connecticut 3	3
16.	Wisconsin 33	2
17.	Michigan 37	70
18.	Illinois 3	6
19.	California 34	2
20.	New Hampshire	20

21.	Louisiana 33	15
22.	Mississippi 20	97
23.	Maine 28	80
24.	Washington 20	82
25.	Florida 28	53
26.	Montana 24	46
27.	Oregon 2:	27
28.	Iowa 22	25
29.	South Carolina 10	65
30.	Utah	61
31.	Georgia 18	56
32.	Missouri 1	52
33.	North Dakota 13	30
34.	Delaware 13	31
<b>3</b> 5.	Idaho 12	27
36.	Tennessee	22
37.	Texas	10
38.	West Virginia 1	13
39.	Colorado 10	06
40.	Alabama 10	05
41.	South Dakota 10	01
42.	Oklahoma	97
43.	Nevada	94
44.	Arkansas	74
45,	Nebraska	86
46.	Arizona	39
47.	Wyoming	10
48.	New Mexico	n

In scoring departments Dr. Chapin had no precedents. For this reason and also because of the difficulties inherent to the task Dr. Chapin's markings are only approximate. Another person of equal fairness, experience and knowledge with the same facts before him and using the same score card might give a certain state twenty points higher or lower than Dr. Chapin has done, or rank it several notches above or below the position in which he has placed it. I am sure, for one, I would not put North Carolina or Virginia higher than twelfth and thirteenth respectively, and Minnesota lower than fourth.

The ratings are only valuable within certain limits, Dr. Chapin states, but within those limits the ratings are valuable. Clearly the best three departments are those of Massachusetts, New York and Pennsylvania. To that everybody might agree, but when it came to assigning these to positions 1, 2 and 3 there would be much disagreement. These are three old states with large cities likewise old. Health departments evolve gradually. For a good health department the community must have passed through both years and experiences. It is to be expected that these older states should have had better health departments.

Suppose we group the states with scores ranging between 600 and 300 into a second group. We have Minnesota, New Jersey, Indiana, Rhode Island, North Carolina, Virginia, Kentucky, Connecticut, Wisconsin, Michigan, Illinois, California, New Hampshire and Louisiana. I think that we could all agree that each of these states has the nucleus

of a very effective health machine, and that in a few years such machine is likely to rank with that of Massachusetts, Pennsylvania and New York. Furthermore, each has a progressive, growing department.

When it came to details we might not agree. For instance, I do not know how many of us would not say that the Wisconsin health department was entitled to fifty points more than that of California. Suppose we make another group of those departments with a rating between 300 and 100. In this group we would have Mississippi, Maine, Washington, Florida, Montana, Oregon, Iowa, South Carolina, Utah, Georgia, Missouri, North Dakota, Delaware, Idaho, Tennessee, Texas, West Virginia, Colorado, Alabama and South Dakota.

I do not know what we would say of these states and their health departments. Certainly we could agree that they have not done for their people what they should have done. We could agree that some of those near the top of the group have done much and are improving all the time. We could also agree that some of those near the bottom are ossified. Dr. Chapin calls especial attention to the fact that West Virginia has made great progress in the last few years. We could also agree that some are coming along satisfactorily considering such facts as their great expanse and sparse population, lack of financial resource, and lack of age.

Suppose we place those below 100 in the cow's tail group. We have Oklahoma, Nevada, Arkansas, Arizona, Wyoming and New Mexico. This grouping occasions some injustice perhaps. When we read the chapters dealing with Sonth Dakota and Oklahoma we see the injustice of placing these states in separate groups, one of which appears to be markedly more worthy of praise than the other. Those of us who know how much Arkansas has improved in the last five years feel like saying a kind word for that state board. Nevada, New Mexico, Arizona and Wyoming are confronted by great difficulties.

But perhaps the best policy is to leave the rating as they stand in the hope that they may irritate, anger, inflame the legislatures into properly providing for the protection of the people.

Among other details found in this report are the expenditures for health of the different departments. The ranks and amounts follow:

1.	Pennsylvania\$1,047,431	66
2.	New York 384,676	85
3.	Massachusetts	14
4.	Maryland 142,600	00
5.	Illinois 133,916	60
6.	Florida 129,012	03
7.	New Jersey 125,942	2 15
8.	California 112,953	48
9.	Ohio 91,736	25
10.	Louisiana 87,493	20
11.	Minnesota 72,013	31
12.	Indiana 64,718	00
13.	North Carolina 61,031	78
14.	Texas 48,200	00
15.	Kansas 46,430	00

	· · ·	45 000 00
16.	Virginia	45,000 00
17.	Michigan	44,872 07
18.	Wisconsin	38,205 63
19.	South Carolina	36,112 52
20.	Vermont	33,385 50
21.	Georgia	33,811 90
22.	Oklahoma	32,700 00
23.	Iowa	32,568 32
24.	Kentucky	30,002 45
25.	Missouri	29,206 19
26.	Connecticut	27,000 00
27.	Alabama	25,000 00
28.	Montana	23,600 00
29.	Mississippi	22,975 43
<b>3</b> 0.	New Hampshire	21,200 00
31.	Idaho	19,820 00
<b>32</b> .	Colorado	19,980 00
33.	Rhode Island	19,568 00
34.	Tennessee	16,552 48
35.	Washington	15,240 00
36.	Maine	14,893 24
37.	Oregon	14,000 00
38.	West Virginia	14,000 00
39.	Utah	12,150 00
40.	Nebraska	10,640 00
41.	North Dakota	10,569 38
42.	South Dakota	9,730 00
48.	Arizona	9.300 00
44.	Arkansas	8,970 00
45.	Delaware	8.492 02
46.	Nevada	7,500 00
47.	Wyoming	2,100 00
48.	New Mexico	

Per capita expenditure in cents. Rank in expenditure and rank as rated by Dr. Chapin:

י נט	Di. Chapin.	
1.	Florida 15.2	1 25
2.	Pennsylvania12.7	3
3.	Maryland10.5	4 7
4.	Vermont 9.2	7 9
5.	Nevada 7.5	9 43
6.	Montana 5.4	5 26
7.	Idaho 5.2	2 35
8.	Massachusetts 4.9	5 1
9.	Louisiana 4.9	3 21
10.	New Hampshire 4.8	1 20
11.	New Jersey 4.4	7 5
12.	Delaware 4.0	4 34
13.	California 3.9	6 12
14.	Arizona 3.7	6 46
15.	Minnesota 3.2	5 4
16.	Rhode Island 3.1	4 11
17.	Utah 2.9	3 30
18.	Kansas 2.6	8
19.	New York 2.3	2 2
20.	North Carolina 2.2	7 12
21.	Indiana 2.2	4 6
22.	South Carolina 2.1	9 29

23.	Connecticut	2.09	15
24.	Colorado	1.95	39
25.	Virginia	1.80	13
26.	Maine	1.78	23
27.	Ohio	1.78	10
28.	Illinois	1.61	18
29.	Oregon	1.56	27
30.	Oklahoma	1.48	42
31.	Wisconsin	1.48	16
32.	North Dakota	1.48	33
33.	Michigan	1.46	17
34.	Iowa	1.43	28
35.	South Dakota	1.27	41
36.	Kentucky	1.24	14
37.	Wyoming	1.21	47
38.	Georgia	1.13	31
<b>139</b> .	Mississippi	1.20	37
40.	Texas	1.13	39
41.	Alabama	1.11	24
42.	Washington	1.08	22
<b>43</b> .	West Virginia	1.02	38
44.	Missouri	86	32
45.	Nebraska	85	45
46.	Tennessee	73	36
47.	Arkansas	53	44
48.	New Mexico		48

Speaking generally, legislatures will devote funds to their State Boards of Health in proportion as the people are interested in health. In some states the popular interest in health arises from recent unfortunate experiences with paralysing epidemics. For instance, the excellent financial support of the Board of Health in Florida, is due to some epidemic of yellow fever ten or twenty years ago.

Roughly the health sentiment of a state is a measure of the efficiency of the state board as an educator. These statements being true, state boards cannot wholly escape responsibility for small appropriations for their support. However, bricks cannot be made without straw. Health work cannot be done without money.

Suppose we try to rerate certain states as modified by their per capita expenditures for health. In order to do as little injustice as possible let us consider on the excellent list only those states in which the per capita expenditure rating is at least ten lower than the grade of work rating. Let us consider as in the poor showing class only those states in which the expenditure rating is ten or more higher than the grade of work rating. Furthermore, since the distances are so great and the population so sparse in Idaho, Nevada, Utah, Arizona, and New Mexico, let us exclude them from the list.

#### Excellent Showing.

Washington, Mississippi, New York, Ohio, Michigan, Indiana, Wisconsin, Virginia, Kentucky, Missouri, Minnesota, Kansas, Illinois, and Tennessee in the order named.

## Good Showing.

North Carolina, Connecticut, Massachusetts, Georgia, New Jersey, Iowa, West Virginia, Maine, Arkansas, Oregon, Alabama, Nebraska, Pennsylvania, North Dakota, Texas, Maryland, Vermont, Rhode Island, South Dakota, California and South Carolina in the order named.

# Poor Showing.

New Hampshire, Louisiana, Oklahoma, Colorado, Montana, Delaware, ending with Florida making the poorest showing of all.

Fortunately the State Board of Health is not our only agency protecting against diseases and making for health. Many of us live in cities and are also protected by the local health department. The federal government helps in certain directions. Some of us are employed in industries which strive to protect the health of their employes. There are various societies for promoting health. Nor should we forget the activities of the practitioners of curative medicine. The preface of Dr. Chapin's report indicates that there may be later reports on the federal activities of health, local health departments, and societies for the promotion of health.

You will note in this report that the State of Washington ranks as 42d in the list of states relative to appropriation per capita for public health work. Standing at 42 in appropriation, ranking as 24th in public health work, without regard to appropriation, and standing first in the character of work performed in proportion to the funds available, is it not reasonable to assume that given an appropriation in proportion to that allowed other states, that your State Board of Health can and will stand at the top of the list without any qualifying adjectives?

In estimating the amount of work done with per capita appropriation, there is one point that has not been taken into consideration by Dr. Evans in his study, namely, the area covered or the density of the population. An appropriation of five cents per capita in Massachusetts would be a far more liberal appropriation than one of 10 cents per capita in the State of Washington, because of the area necessary to cover in the work. The less densely populated a state is the greater per capita appropriation necessary to accomplish the same end.

As already stated, Dr. Carroll Fox of the United States Public Health Service, considers that an appropriation of \$160,000 per year for the State Board of Health alone is needed. We believe, however, that an appropriation of eight cents per capita, or \$125,000 per year, will enable the State of Washington to stand at the head of the list of states in public health work, and, in addition, will provide for the appointment of 15 men, devoting their entire time to public health work in the various parts of the state, and sufficient nurses and sanitary inspectors to thoroughly rid the state of preventable diseases. It would be extremely difficult to secure competent men to enter upon this work unless they had assurance that sufficient funds to continue it would be permanently provided. We, therefore, recommend that the money for public health work in the State of Washington be raised by a special tax of one-fifth mill annually.

### LABORATORY.

The laboratory may well be designated as the heart of a public health department. It is through the efforts of these workers in the back-ground, if I may use the term, that public health work has been enabled to make the rapid strides it has made during the last 20 years, and it is through the efforts of these workers that we must hope to find the means by which we can control diseases regarding which we are now in the dark, such as infantile paralysis, etc.

The laboratory of the State Board of Health is inadequately equipped both in regard to material and employes. For a number of years Dr. E. P. Fick has performed the work of this laboratory at a nominal salary, to the detriment of his private practice and his personal income. Dr. Fick's interest in the laboratory has not diminished, but it did not appear right or just that Dr. Fick should be called upon to make such personal sacrifice. However, Dr. Fick remains on our staff today as Consultant Bacteriologist, and at no time does he hesitate to make any sacrifice in order to give us the benefit of his long and honorable experience in laboratory questions.

In June, 1915, we secured Dr. Maria K. Schuhmeister, who is devoting her entire time to the laboratory work of the State Board of Health. We are thus able to make prompt and accurate reports on all bacteriological questions submitted to us, so far as our laboratory is equipped to make such examinations.

We have stated that the laboratory is the heart of the public health work. It is also an economic investment on the part of the people of the state. This year the small investment now made in this laboratory is bringing good returns and the investment should be increased proportionately and proportionately greater returns secured. I submit herewith a paper read by Dr. E. P. Fick at the meeting of Health Officers in July, 1916.

# THE STATE LABORATORY AS AN ECONOMIC MEASURE.

By Edward P. Fick, M. D., Consulting Bacteriologist.

It has been said that the American nation is a people of forgetters, and it might not seem out of place here to remind you health officers of a few incidents in the brief life history of the public health movement.

This propaganda has been and is one of the most rapidly moving sciences in man's activity. In this state, about eight years ago, there were a couple of small rooms in a third-class building, and in one corner of these was a cubby-hole jammed with obsolete equipment, to a great extent borrowed, loaned and given to the state laboratory for conducting a few experiments and examinations. Occasional cultures coming in from the doctors in the country, such as sputum, specimens for the determination of diphtheria, and a rare genococcus slide were about the extent of the work done. I would say twenty or thirty of such examinations per month would not be far from the actual total, and there was, and has been until a comparatively few months ago, a part time bacteriologist. Few of the thousands of physicians who send specimens to the public diagnostic laboratories and depend upon this valuable assistance as one of the fundamentals of their daily routine, realize how this service has grown from the small beginning a few years ago, and fewer still realize, as Winslow has said, that "The work of the laboratories is one of the chief foundations upon which all sound public health work must be based;" and still, only Massachussets and New York appropriate respectable sums for such research.

I trust that I shall not digress too far from my subject to recount in a brief sort of way the illuminating history of the public health laboratory. It began its modern form about the time of our own Civil War, with the epoch making discoveries of Louis Pasteur. Lord Lister and Robert Koch, but the public health laboratory antedates even In America, interest in public health matters began three or four years after the war, during the period of reconstruction. It began technically in Massachusetts, when the State Board of Health was established for the purpose of looking into the stream pollution William T. Sedgwick, late president of the American of that state. Public Health Association, shorftly afterwards enriched this board, and when the new science of bacteriology came into being in the early eighties he was quick to see its possibilities. It may be of interest for you to know that Dr. Samuel J. Holmes, practicing physician of this city at the present time, went to Europe to learn about this newfangled mystery of germs, and taught this subject in Chicago soon afterwards. Further, that Dr. Kibbe, of Seattle, who died about ten years ago, was considered a sort of he-witch because he snooped around in dark corners with a lamp, gazing through a microscope at "those things." Sedgwick gave the first course in bacteriology in this country, as far as I can learn, and that was as recent as some twenty.

six years ago in the famous Boston "Tech." Surely, "the world do move!" It may be that some of us here took the first courses in bacteriology that were ever given in America. The early work was largely devoted to sanitary rather than to the medical aspects of the subject, but it became increasingly apparent that there were rich promises in the control of communicable diseases. Especially was this clear to our now foremost living sanitarian, Herman Biggs, even then at the port of New York. Gradually, departments grew in the various health boards, with bacteriology always leaping to the front. Cholera, at the time of the World's Fair in Chicago, threatened us from Europe, and the methods of the discoverer of the organism of cholera were quickly taken advantage of by us here. Then the boards incorporated in the service the examination of sputum for tuberculosis; then Dr. Parks, in New York as a private research, began to examine the throats of the well and the sick for diphtheria, and it was found advisable to include this work in public health laboratories. twenty years ago. Now he examines close to 100,000 specimens for diphtheria a year, and it may be of further interest to you to know that the New York board about that time began a free distribution of diphtheria antitoxin. So, gradually, we have seen the more common infectious diseases come one by one into the fold of the laboratory.

If one scans the pages of man's activities, yes, even the prowess of the gods, from the building of the Panama Canal to the cleaning of the Augean stables, nothing as I see it can compare with the simple endeavors of the laboratory worker, whose purpose seems only to prolong life. It is difficult to put a monetary value on the human life; it is difficult to estimate what it costs in dollars to the state to lose a citizen; and yet, how cheaply do its citizens pay, how begrudgingly do the hands close upon the few shekels for the Great Healer. New Mexico has no state laboratory! It does not take much of a prophetic eye to realize what the future of this great movemeent has in store for us. Even now the various state laboratories examine specimens for syphilis, cancer, make vaccines for rabies, tuberculosis, smallpox and typhoid, (Washington was the second state to do this), determine the purity of drugs and foods, and undertake special investigations, technical studies and research.

I have no figures available as to the money Washington expends on its laboratory, but it is well within reason to say that with its one odd million souls it contributes less than one-hundredth of a cent. It does seem that from one to two cents per capita is not asking too much. This sum is necessary to insure efficient laboratory service. It must be remembered, to paraphrase Winslow, that a public health official applies his lessons learned in the laboratory to the health of the community at large.

Dr. Chapin, who was out here a few years ago investigating public health matters, said: "It is fortunate that the nation consists of fortyeight commonwealths in which forty-eight different serial experiments can be tried." For Washington state I would propose an experiment. having in view the establishment of a public health laboratory, or laboratories, under the control of the State Board of Health, and having full charge of the analysis of foods and drugs, a medical diagnostic division for physicians, not only for the examination of the ordinary specimens, but for the diagnosis of syphilis, tissues, etc., and the manufacture of biologics. Parenthetically, let me say that the position that the syphilitic occupies in the country, and therefore in the State of Washington, is almost incomprehensible. There is probably more written about this disease than any other with the exception of cancer and tuberculosis. We realize its importance, but in most places we do nothing for it. Our state, city and county institutions are reeking with this plague; especially is this true in our insane asylums. Every inmate should be, and is not, examined for it. That public supervision of irresponsible syphilities in any stage of the disease is needed, is a position fortunately no longer under discussion. I hesitate to estimate the heavy toll Washington pays for riding in such leuetic livery. Estimates of the number of syphilities in our public institutions have not been compiled, but it is probably fair to assume that the number is approximately the same in this state as in others where such statistics have been gathered. I have to thank Dr. Eugene R. Kelley, late secretary of the Washington State Board of Health, and now Chief of the Division of Communicable Diseases in the state of Massachusetts for the following report entitled. "Clinical and Wasserman Analysis of 4,223 cases." These consisted of psychopathic subjects, inebriates, feeble-mindedness, delinquent subjects, criminals, tuberculosis individuals, patients suffering from malignant diseases, acute general hospital group, pregnancy group, infants and children, and the chronic disease group chiefly of the alms house type. Interestingly enough the criminal subjects consisting of 185, were 40 per cent syphilitic. About five per cent doubtful, and the balance presumably not syphilitic. The alms house type consisted of 26 per cent syphilitic, infants and children 181/2 per cent, the psychopathic group nearly 15 per cent syphilitic, and the acute general hospital group nearly 13 per cent syphilitic. Of the entire number 15 per cent were found to be tainted with leuetic infection and suffering more or less severely with that disease.

Just a scanning of this report only serves to direct your attention to the importance of an attempt to control this disease in Washington. The consistent thing, of course, would be the detection of the disease in its incipiency, in order to keep this group out of our public institutions where the cost of maintaining such people is such a drain on the tax-payers. I believe it is just as absurd to not have the State Board of Health in control of the state asylums and hospitals, as far as the health of the inmates is concerned, as it would be not to have a medical man as a health officer.

By a strange turn of the wheel, the laboratory of the State Board of Health has never had anything to do with pure foods or drugs.

Instead, the work uneasily lies in the Department of Agriculture. Why, indeed! There is decidedly too much overlapping of our own community interest in human health. It is not economical.

Finally, I am convinced that the time is coming when, except in the most rural communities, it will be required of you to be especially trained in health matters. Probably you will have the title of Doctors of Public Health.

The functions of a complete public health laboratory are far reaching. We have no records in this state showing what per cent of the inmates of our asylums are there as a result of syphilis, but Massachusetts has made a very careful study of this question and she finds that 15 per cent of the inmates of her insane asylums are there because the diagnosis of syphilis was not made at a sufficiently early date. It is, of course, highly important that this diagnosis be made after the patient is admitted to the asylum, for without such diagnosis proper treatment cannot be administered, but after this disease has advanced to such a stage that insanity is produced, little or no results can be secured by treatment. In other words, were this diagnosis made early in the course of the disease and proper treatment administered, these unfortunates would not be charges upon the state and without hope of improvement. Not only would the early diagnosis and proper treatment keep 15 per cent of the inmates out of the insane asylums, but every poor farm, free county hospital, and every charitable institution in this and other states, have a large proportion of their inmates on account of failure to recognize this disease in its incipiency.

Thanks to laboratory workers, the diagnosis of syphilis can be positively made today at any stage of the disease, by what is known as the Wasserman test. This is strictly a laboratory test and can be made only by experienced workers in laboratories. The county physician and the physician in private practice does not feel that he can expend from his own pocket the sum of \$5.00 or \$10.00 in order to have this test made for patients from whom he will receive no remuneration. The result is that these cases go undiagnosed and unrecognized, to the end that they become charges upon the people. Your public health

laboratory should be equipped to make the Wasserman test for every citizen of the state desiring such test.

## PATHOLOGICAL TESTS.

Not only should the public health laboratory be equipped to make all bacteriological examinations free of charge to the people of the state, but it should also be equipped to make pathological examinations; that is, to examine and determine the character of tumors and other disease tissues. The same economic consideration holds good with regard to these conditions as with regard to syphilitic conditions. Poor people unable to pay for examinations made at commercial laboratories do not receive this benefit. These tumors are permitted to progress beyond the stage where surgery will afford relief before a diagnosis is made. The result is these people become permanent charges on our cities, counties and state.

Further, the State Board of Health laboratory should be prepared to tell any citizen in the state whether the food products sold to him are of proper standard, and not only the food products sold, but the natural food of the infant—the mother's milk—often requires laboratory examination to determine its nourishing quality.

The whole question of a properly equipped laboratory, and one so equipped that it will meet every requirement confronted in the protection of the health of the people of the state is an economic one and a profit bearing investment. The work performed by the state laboratory with its meagre equipment during the last biennium, is submitted in Tables IX and X.

We respectfully request that you note the large amount of typhoid bacterin dispensed by this laboratory. All typhoid bacterin made in our laboratory is tested by the United States Public Health Service, both as to its purity and efficiency before it is dispensed. Every soldier going from Washington in our National Guard, received immunizing doses of bacterin prepared in your state public health laboratory. Sufficient typhoid bacterin has been used to immunize 8,959 persons during the last biennium. None is required to receive this pro-

phylactic measure against typhoid fever. We simply submit to the people the evidence of its efficiency. We supply the material free of charge to the physicians of the state. Those who desire to be immunized apply to their family physician for immunization, and the inclination on the part of our people to take advantage of this modern prohpylactic against typhoid fever is evidenced by the increasing calls that come to us for the material.

## RABIES.

Rabies has not prevailed in our state to as great an extent during the last biennium as it did during the previous biennium, but it is liable to break out at any time. During the last month rabid coyotes have appeared in the eastern part of our state. Infected coyotes were found last year in Oregon, Idaho, California and other adjacent states. We cannot keep this disease out of our state. Therefore, we must prepare to fight it.

The United States Public Health Service supplies our laboratory with the material for administering the Pasteur treatment. After rabies has developed in a human being, no treatment is known that will cure it, but if the Pasteur treatment is administered within a reasonable time after a person is bitten by a rabid animal, the disease is prevented. The material for this is furnished the State Board of Health by the Federal Government on condition that it be administered by the laboratory workers of this department. It is therefore necessary for those bitten by rabid animals to come to Seattle to receive the treatment, for which no charge is made, either for material or for its administration. During the last biennium in all 48 people received this treatment, but we must be prepared to administer it to increasing numbers as the disease becomes more prevalent in our state.

#### GOITER.

Goiter prevails to a very unusual extent in Washington. The cause of this disease is not known. It seriously handicaps many of our citizens and incapacitates and claims the lives of others. An intensive study into the cause and possible prevention of this disease should be undertaken in our state public health laboratory.

Table IX.—SPECIMENS EXAMINED IN LABORATORY—Continued.

FROM OCTOBER 1, 1915, TO OCTOBER 1, 1916.

1	Total	::"	
	Not Reported	:::	
Urine	Suspicious	:::	
	Negative	H	
	Positive		H 0 0 4 H 0
T	Total	H	M 10 00 11 11 10 10 10
_	Not Reported	:::	
Rabies	Suspicious	:::	
24	Negative	- :	- 64 64 64 64 64 64 64 64 64 64 64 64 64
	Positive	111	H H : : : : : 04
T	Total	64	® 1 4 0 1 Q
8	Not Reported	:::	
Gonorrhea	Suspicious	:::	
ું ક	Negative	:::	10 H 00 00 H 00 00 H 00
	Positive	64	11 88   11
	Total	818	2122888227-15 3
펻	Not Reported		
Typhoid	Suspicious	35 6	85 123 123 1 28
H	Negative	684	2 388522223 2 388522223
	Positive	8 12 14	10000000
	Total	118 178	815118888
88	Not Reported	!!!	
Tuberculosis	Suspicious		<u> </u>
Tub	Negative	72 92	8 = 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Positive	11 63 70	⊕ 57 × ∞ ∞ 4 4 ∞ 4 €
	Total	28 88	128 88 87 81 15 15 15 15 15 15 15 15 15 15 15 15 15
It u	Not Reported	1 1 1	
Throat Cultures	Suspicious		
pro	Negative	13 16 56	1288881877 8
F	Positive	æ55	21148449 4 8
	МОМТН	1915 October November December	1916 January February March April May June June June September Totals

* Thirteen examinations for para typhoid (1-12). † Twenty examinations for para typhoid (8-17).

Table IX.—SPECIMENS EXAMINED IN LABORATORY—Continued.

1916.
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OCTOBER
2
1916,
Ę,
OOTOBER
FROM

	Bact. Counts	24,	90 : : : : : : : : : : : : : : : : : : :	8
	Grand Totals			
	Total	:::		:
i l	Not Reported	:::		i
ğ	Suspicious			:
	Negative			i
	Positive			i
	Total	2532	22583583	2
	Not Reported	:::		:
Water	Suspicious	200	. το ∞ ⊶ το <b>4</b> αο	:
	Not Contami- nated	87.3	22848428	:
	Contaminated.	200	<b>∞</b> ⊔4π000	:
	Grand Totals	888	93323865 <b>18</b>	1,868
	Total		91 :-91 :-91 91	28
Preparation of Antogen. Vacc.	Organic	::::		i
ret.	Other			:
nto	Strept	F		61
144	Staphyl	-01	91 :-91 :-91	Ħ
	Total	84-	4408000	23
eous	Not Reported			:
alla	Suspicious			:
Miscellaneous	Negative			12
	Positive		01011101014	15
ایر	Total		Ф M M m m	88
Typboid Carrier	Not Reported			:
형	Suspicious			:
Q	Negative	:::	6 1 1 6	8
	Positive	:::		93
	HLNOW	1915 October November December	1916 January February March March April May Jue July August September	Totals

Table IX.—SPECIMENS EXAMINED IN LABORATORY—Continued.

FROM OCTOBER 1, 1915, TO OCTOBER 1, 1916.

11 1	Total	::-	6434364	83
	Not Reported	111		:
Urlae	Suspicious			÷
Ď.	Negative	-	пнпп п	- 31
	Positive		-0 04	<u>_</u>
11-	Total	:	616000	12
-			<del></del>	
Rabies	Not Reported			-
Ba	Suspicious			_
-	Negative	- : - :	:::!	2 12
1	Positive		: : : : : : : : : : : : : : : : :	_
.	Total	63	0r440 40H	÷
e d	Not Reported			<u>:</u>
Gonorrhe	Suspicious			<u>:</u>
8	Negative	111	10 10 10 10 10 10 10 10 10 10 10 10 10 1	ន
	Positive	64	<u> </u>	17
	Total	818	+ + 52 B 88 88 82 54 55 55 55 55 55 55 55 55 55 55 55 55	<u>%</u>
펄	Not Reported	<u> </u>	<u> </u>	_
Typhoid	Suspicious	జ	8711378131	8
H	Negative	2-9190	82422488	ž
	Positive	921	1000000	8
	Total	81 8 17	844448888	342
38	Not Reported			-
regi	Suspicious	111		<u>:</u>
Tuberculosis	Negative	71 9 21	8288882281	88
	Positive	1812		28
	Total	288	12 887 87 87 81 85 81 81 81 81 81 81 81 81 81 81 81 81 81	1,014
Itur	Not Reported		61	61
l C	Suspicious			:
Throat Cultures	Negative	81 13		- 26 88
F	Positive	925		081
	MONTH	1915 October November December		Totals

* Thirteen examinations for para typhoid (1-12). † Twenty examinations for para typhoid (3-17).

Table IX.—SPECIMENS EXAMINED IN LABORATORY—Continued.

1916.
Η,
OCTOBER
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1915,
٦,
OCTOBER
FROM

	Bact. Counts	24,	10	8
	Grand Totals			
	Total	111		
i l	Not Reported	111		1
ğ	Suspicious	111		
	Negative			
1	Positive			
Ì	Total	25122	22582588	377
	Not Reported	:::		:
Water	Suspicious	<b>20.0</b> 0	P000400	1
	Not Contami- nated	82 Z 33	22848422	
	Contaminated.	888	<b>⊕</b> □ ★ □ Ø Ø	
1	Grand Totals	882	95328E618	1,868
	Total	-m	04 HO 6400	82
Preparation of Antogen. Vacc.	Organie			
rati	Other			
nto	Strept	Ħ		64
H-4	Staphyl	H 61	04 : H04 : H04	12
_ [	Total	81-	4400000	22
000	Not Reported			
Miscellaneous	Suspicious	::::		
K	Negative	1 1	9977 6161	12
	Positive			121
, E	Total		9 4 8 6 8	엃
Typboid Carrier	Not Reported			
형	Suspicious			
dq	Negative		Ф H N 9	81
H	Positive		:	8
	HONLH	1915 October November December	1916 January Pebruary March March May June June August September	Totak

Table X.

TYPHOID BACTERIN DISPENSED.

	00	Treat- ments
1914		
October	480	192
lovember	290	112
December	805	322
1915		
anuary	180	72
Pebruary		190
darch	300	100
April	252	8
dayune	206 510	20
	885	35
uly ugust	1.437	57
eptember	348	13
Totals	5,688	2,27
1915		
October	750	30
lovember	60	2
December	277.1	11
1916		
anuary	472.	18
'ebruary	2,620	1,0
farch	1,796	7
.pril	2,300	9
ſay	880	. 5
une	4,415	1,7
uly	2,225	1 7
ugust eptember	602. 317.	
Totals	16,715	6.6

## RABIES-FREE TREATMENTS FURNISHED.

October.	1914 to	1915. 42 treatments
October.	1915 to	1916. 7 treatments

## REPORT ON VITAL STATISTICS.

This branch of the work constitutes the book-keeping of Public Health efforts. Without proper registration of births and deaths it is impossible to know what the results of Public Health work may be.

The work performed in this department is little appreciated by those who have not had experience in public health matters, and especially in the vital statistics line of this work. We are now recording each month about 2,200 births and 1,050 deaths. To simply say that we are recording this number per month gives no idea of the amount of work that is done. In regard to the death certificates, let me state the procedure that is gone through with regard to each certificate.

Upon receipt of a report from the local registrar, each death certificate is checked to see that it is properly made out and is complete so far as it may be possible to secure the information required. The registrar is then credited with the number of deaths recorded by him. Each death certificate is then gone over to see if cause of death as given on the death certificate is a proper and legitimate cause of death. In about 10 per cent of the certificates filed the death certificate is not properly made out, thus requiring the writing of about 100 letters per month in order to complete the death certificate. Each certificate is then gone over again and cause of death properly tabulated, as indicated in Tables XI and XII of this report. The deaths are then numbered in consecutive order. They are then indexed and cross-indexed by card filing system, so that any death certificate filed in this office may be promptly located. Thus each death certificate is handled not less than six times in this department before it is filed as complete. After the death certificates have been filed the newspapers of the state are studied and individual reports from undertakers are received and checked, in an effort to make sure that every death that occurs in this state is properly recorded.

The same procedure is gone through each month with regard to births filed. The same proportion of birth certificates are found to be incomplete or inaccurate, and letters are written for additional information. The same efforts to check up the birth returns are made, as stated above to check up the death And, finally, a pamphlet, intended to instruct the mother in the care of the baby, is sent to the parent of every child whose birth is recorded. Each quarter a statement must be made to the county, setting forth the number of births and deaths properly recorded by each local registrar in the state. There are 357 local registrars. This alone is equivalent to keeping a set of books for a store with 357 credit customers. The department must see that each local registrar is supplied with the necessary blanks for securing the proper returns, and must at all times see that each local registrar not only understands the duties of his office, but that he performs the work required of him.

In performing the duties required by the State Board of Health under the vital statistics law, a very large amount of clerical work must be performed, a work that is accomplished by the present office force only by virtue of the fact that these employees not only put their heart in the work, but they have by experience become so skillful in handling this large mass of material that they are able to accomplish as much as could be accomplished by twice the number of employees inexperienced in this line of work. We, therefore, believe that these employees are entitled to a raise in salary on account of their increased efficiency.

For a number of years the death returns in the State of Washington, upon which our low death rate is based, have been questioned by sanitarians and statisticians of the older states. Not only have they been questioned in various meetings, but our death returns have been officially questioned by the United States Census Bureau, said Bureau assuming that we were not getting complete returns. This controversy has been carried on by correspondence between this department and the Census Bureau and

a mass of written material has accumulated. Believing that little or nothing was accomplished by such correspondence and that the question of the completeness of our returns could be determined only by a thorough investigation, the Commissioner of Health insisted that the United States Census Bureau send a competent man to Washington to investigate the work of this department relative to the registration of deaths. This was done in the spring of 1916, when Dr. Cressy L. Wilbur came to our state on behalf of the United States Census Bureau, and, as a result of his investigation, reported that our death returns were, to say the least, reasonably complete. As a matter of fact, I am thoroughly convinced that Dr. Wilbur failed to find a single death in the State of Washington that had not been properly recorded, with the exception of a very small proportion of the deaths that had occurred on Indian Reservations and other Federal Reservations in the state, and as our authority does not extend to these reservations, we believe that if there is any incompleteness in our death returns the fault is to be laid entirely at the door of the Federal Department. As a result of the investigation made by Dr. Wilbur, on behalf of the United States Census Bureau, the authenticity of Washington's low death rate cannot be officially questioned. However, it goes against the grain for many of the older states to grant our low death rate, and now they raise the question as to our estimated population. We have nothing to do with the population estimate. This is entirely in the hands of the Census Bureau, and if they have over estimated our population it is their fault and not ours. But we doubt, and seriously doubt, if the population is as badly over estimated as is assumed by some. We think that there is a slight over estimate, but nothing in proportion to the under estimate that was made for this state in 1907, 1908 and 1909.

I regret exceedingly that we have not the authority to publish Dr. Wilbur's report to the United States Census Bureau, a copy of his report having been supplied me with the absolute agreement that it was not for publication. However, a study of

deaths among the policy holders of the Metropolitan Life Insurance Company was made, at the request of the Commissioner, by Mr. Louis I. Dublin, a statistician whose ability to make competent investigations and draw logical conclusions is unquestioned. It is with great pleasure that I submit herewith Mr. Dublin's report with regard to deaths among industrial insurance policy holders in the State of Washington. You will note that his findings show a death rate of 6.6 per thousand for the State of Washington, against a death rate of 10.8 for the average among policy holders.

## MORTALITY OF THE INDUSTRIAL POPULATION OF WASHINGTON.

By Mr. Louis I. Dublin, Statician, Metropolitan Life Insurance Company, New York, September 8th, 1916.

The general death rate of the State of Washington is low; in the year 1913, when the rate for the whole registration area was 14.1 per thousand, the Washington rate was only 8.5. General confirmation of the healthfulness of the state is furnished by another group of figures. These are the returns of the industrial insurance companies operating in Washington. The Metropolitan Life Insurance Company, for example, had about 55,000 policies in force in Washington in its industrial department alone in the year 1915. This exposure may be considered a fair sample of the general population of the state, including as it does a fair proportion of the working class families. The death rate for this group was 7.8 per thousand in 1915.

If, in order to broaden the Metropolitan exposure, we extend the experience over the three-year period, 1913 to 1915, we find a rate of 6.6 per thousand among the policyholders. This rate is considerably lower than the general rate of the company for white lives, which in the corresponding period was 10.8 per thousand. Thus the favorable population returns are confirmed. The insurance death rate is extremely low because children under one are not included in the experience. This exclusion easily accounts for at least two points in the general death rate. The two rates, namely for the population and for the insured are, therefore, much the same. This condition is also found in the rates for the principal causes of death. (See table). It is interesting to analyze the figures therein given to determine which causes of death are especially responsible for the low rates found in Washington.

The typhoid fever rates are very low in both groups—only 5.8 per hundred thousand for the insured and 11.3 for the general population. The latter rate was unduly weighted by the Centralia epidemic of 1913. This was the first serious epidemic which the state had ex-

perienced and served to impress the necessity for strict supervision of water supplies. As a result, we may expect even lower typhoid rates for subsequent years.

The infectious diseases of children are about equally represented in both experiences, though scarlet fever and whooping cough have lower rates for the insured than for the population. As compared with the rest of the country, we find that the scarlet fever and diphtheria rates are only a little over 20 per cent, measles 37 per cent, and whooping cough 66 per cent of the corresponding rates for the registration area. Similarly, the population rate for tuberculosis of the lungs is 61 per cent of that for the registration area, while the insured rate is only 41 per cent of the rate for the country-wide experience of the company.

Cancer also has low rates in both groups, though the rate for the population is decidedly higher than that for the insured—53.3 per hundred thousand as compared with 41.7; the rate for the registration area is 78.9 per hundred thousand. Contrary to most experiences, the organic diseases of the heart are more highly represented among the industrially insured than in the population at large, and they form the most important single cause of death throughout the state. The rate of 95.9 per hundred thousand for the insured and 82.4 for the population are, nevertheless, much lower than those found in the general experience of the company and in the registration area, both of which are nearly 140 per hundred thousand.

The diseases of the respiratory system have a low representation in both experiences, the rate being about one-third as high as those found throughout the country. The mortality from the puerperal state is greater among the insured women, but in neither experience do the rates show striking deviations from the normal. The external causes are much more highly represented in the general population than in the insured group. This is surprising in view of the fact that insured working people are more frequently exposed to accidents and other hazards which often result in violent death and usually show higher death rates from these causes. The Washington rate is, however, practically identical with that of the registration area.

The mortality among the wage earning classes of the country has long been a matter of great interest to the executives of the Metropolitan Life Insurance Company and they have in recent years inaugurated a campaign of education against the preventable diseases and have instituted a system of visiting nursing of sick policyholders. It has been demonstrated that this applied preventative work has resulted in lowering the industrial death rate very appreciably in the last three years. Such results as this give great encouragement to the further extension and development of life conservation work on the part of the company, and it is hoped that its effort in conjunction with that of the health departments of the country will ultimately bring about a reduction in the general death rate to the low level which the State of Washington has shown it is possible to attain.

We must not, however, feel too proud or too confident as a result of this low death rate. Our death rate is not so much lower than that found in other Rocky Mountain and Pacific Coast states, with the exception of California, whose high death rate is accounted for by her large immigration of tubercular subjects.

Mr. Dublin stated to me in August of last year that he could take our death records and state within a reasonable time just what year our death rate will reach 14 per thousand popula-His study, however, would necessarily assume that the people of Washington are going to continue the same amount of public health work that they are performing now. It is, however, within the power of the people of Washington to entirely upset statisticians' predictions by so thoroughly and energetically persisting in their public health work, that our death rate will never reach 14 per thousand population. With our sparsely settled country, our pure water supplies, our intelligent people, and our climatic condition, I hold that when the death rate in any state on the Pacific Coast reaches 10 per thousand, and where there are not extenuating circumstances, such as exist in California, that such state is entitled to condemnation for failure to perform proper public health work, instead of praise for keeping their death rate below 10 per thousand.

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Тасопа	800000000000000000000000000000000000000	131
Spokane	11 10 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	,245
Seattle	28 88 88 89 89 89 89 89 89 89 89 89 89 89	2,738
Everett	41.:08 : 1200762 : 9 00210 007 : 011104 000000 : 4 : 00	182
Bellingham	84: 911222341838881818388	80
Yakima	2: : : : : : : : : : : : : : : : : : :	442
Whitman	4 : : 6 2 : : : 1 : 1 : 2 : 2 : 2 : 2 : 2 : 2 :	305
Whateom	11: 13: 13: 13: 13: 13: 13: 13: 13: 13:	211
allaW allaW	5-1101-1204 380 50000000000000000000000000000000000	282
Wabkinkum	111111111111111111111111111111111111111	120
Thurston	52: 118200080000000000000000000000000000000	217
Stevens	10 : : : : : : : : : : : : : : : : : : :	175
Spokane	1 : : : : : : : : : : : : : : : : : : :	101
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Skamanla	::::::::::::::::::::::::::::::::::::::	123
Skagit	16: 16: 33.44488898949197898989898989898989898989	8228
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Pend Orellle	::::::::::::::::::::::::::::::::::::::	8
Pacific	1   1   1   1   1   1   1   1   1   1	142
Окапокип	7	40 91
Mason	01	146 4
Lewis	11: 12: 22 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	339 1
Klickitat	HOI : : : : HA : P : : : : : : : : : : : : : : : : :	100
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Kitsap	19 : : : : : : : : : : : : : : : : : : :	2000
Bulk	811 : :4 : :4842 : : -2848888999855778-555976584 : 814	136
1 Jefferson	8 : : : : : : : : : : : : : : : : : : :	121
basisi		8
Distribild		14
Pranklin	::::u:::::::::::::::::::::::::::::::::	1 45
Ferry	0000	1 00 1
Cowlitz	wine it in the in the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	1 65
Columbia	01 : : - : : : : : : : : : : : : : :	121
Clarke	418 : 2 : 22 20 : 1 : 2 : 2 : 2 : 2 : 2 : 2 : 2 : 2 : 2	275
Challam	HELE : : : : : : : : : : : : : : : : : :	1 80
Chelan	2	136
Chebalia	200.11. 00.00.00.00.00.00.00.00.00.00.00.00.00	37
Asotin	AH	59 67
smabA	4	121
DISEASES	Typhoid fever Diphtheria Rearle Rearle Rearle Whooping cough Whooping cough Whooping cough Typhereulosis, pulmonary Typhereulosis, pulmonary Typhereulosis, other Rabbes Other infections diseases Checklerine cerebro-spinal meningitis other Heart disease Circulator diseases, other Pracumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-penumonia Broncho-p	Totals

#### BIRTHS.

With regard to the registration of births, we cannot claim to have complete returns. While the returns of births have materially increased during the last four years, the birth rate per thousand population in 1912 being 15.2, whereas, in 1915 it is 16.8, using the Census Bureau's report of estimated population. With this increase in births recorded per thousand population, a peculiar condition is confronted in the fact that the births recorded per thousand population in the city of Seattle have shown a constant decrease. We should show a birth rate of 20 to 25 per thousand population. We are, therefore, still considerably short in the matter of complete registration of births. One reason for this is our lack of any law controlling the practice of midwifery. The physicians of the state are making fairly complete returns of all births attended by them. A few seem obdurate in this matter. We have collected a large mass of evidence relative to those who have not reported their births completely. In a large majority of instances, letters written to physicians calling their attention to failure to make these reports have brought prompt results. In only two instances has it been deemed advisable to go into court in these cases. progresses and those responsible for making birth reports have sufficient opportunity to become thoroughly acquainted with the requirements of the law, patience will cease to be a virtue. It will then be necessary to take legal action in the matter of violating the laws relative to the registration of births with as little hesitancy as action is taken with regard to the violation of other laws.

The birth record of a child is a valuable asset to him in later life and we have no right to steal this asset from him. During the last year our department has been flooded with requests for certificates of birth of young men and young women who have gone to other countries and found themselves embarrassed by lack of evidence of American citizenship. In many cases a birth certificate was required to complete this evidence. Unfortunately, most of these people were born before the registration of

births was required in the State of Washington, and many of them have been placed in embarrassing, if not humilitating, positions because of their inabality to secure this record, which one county attorney informed us "Was a very insignificant matter."

In addition to requiring birth certificates for legal questions, we have of late received numerous letters relative to profit-sharing industries, stating that in order to participate in the profits, the age of the employee must be known, and that nothing but a birth certificate will be accepted as evidence of age.

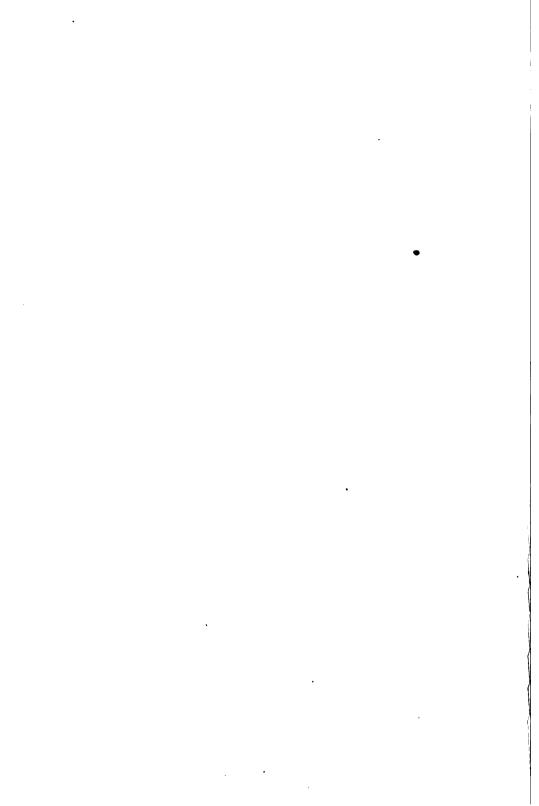
The lack of laws controlling midwifery in our state prevents our having any knowledge of who is practicing midwifery, and without such knowledge we cannot inform them relative to the requirements of the laws pertaining to the registration of births. But even with these handicaps, the completeness of birth registration is gradually increasing in our state and we hope shortly to be able to confidently assert that our births are as completely recorded as our deaths.

Table XIII.—CLASSIFICATION OF BIRTHS, 1914.

PARTITION	83	SEX			COLOR			NAT	NATIVITY OF FATHER	)F	NAT	NATIVITY OF MOTHER	) F	i to
COO	Male	Female	White	Black	Jap. or Ohinese	Indian	Mixed or Others	Native	Foreign Not Beported	Not Be-	Native	Foreign Not Reported	Not Re-	
		8		'				:	!	-	1	:		3
Adams	3 8	38 35	<u> </u>	-	:	:	:	136	<b>\$</b> «	-	3	, es	:	3 5
Benton	8	3,2	12			-		3	88	67	147	23		12
Chehalis	8	<b>\$</b>	ě	-	_	:	61	994	\$	9	9	250	<b>-</b>	706
Chelan	8	ŝ	\$		60	64		99	\$	-	876	æ	:	9
Clausm	8 £	28	<u> </u>	:	-	-	01	<b>8</b> 8	\$ 5	e) e	얼	<b>3</b> 8	93 6	<b>26</b> 5
Oolumbia	; E	3 15	12.5			:		3 2	3 5	<b>&gt;</b> ex	17.	9 0	4	3 5
Cowlitz	118	115	8					181	8	04	161	8	01	<b>8</b>
Douglas	98	8	ಕ್ಷ	-	-			571	53		28	11		803
Ferry	<b>3</b>	2	2	:	-	61	2-	8	17	-	8	7.	:	86
Franklin	<b>4</b> 8	23 8	83 8	:	*	-	:	2	_ ::	:	ಹ :	22	:	<b>8</b>
Garneld	81	3	8	:		:		at ;	إما	:::::::::::::::::::::::::::::::::::::::	8	•	:	83
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Table XIV.—CLASSIFICATION OF BIRTHS, 1915.

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75-foot Concrete Arch Bridge Over Little Spokane River, State Road No. 23, near Chattaroy.

## STATE OF WASHINGTON

## Sixth Biennial Report

OF THE

# HIGHWAY COMMISSIONER

FOR THE PERIOD

Oct. 1, 1914, to Sept. 30, 1916

JAMES ALLEN
State Highway Commissioner

**OLYMPIA, WASHINGTON** 

PRANK M. LAMBORN PUBLIC PRINTER
1916

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## LETTER OF TRANSMITTAL.

STATE OF WASHINGTON,
OFFICE OF STATE HIGHWAY COMMISSIONEB.
OLYMPIA, WASHINGTON, October 1st, 1916.

Honorable Ernest Lister, Governor of Washington.

SIR: Pursuant to law, I have the honor to submit herewith the Sixth Biennial Report of this department for the period from October 1st, 1914, to September 30th, 1916, inclusive.

Very respectfully,

JAMES ALLEN,
Highway Commissioner.

## INTRODUCTION

It is the aim to present in the following pages a brief, concise, but complete report of the activities of this department during the period from October 1st, 1914 to September 30th, 1916, eliminating as far as possible such matter and phases of construction and operation in connection with the work under the jurisdiction of this office, which have been fully covered in previous reports of the Highway Commissioner. Repetition has been avoided when possible in this report, yet the previous reports contain a great deal of valuable information, and to those directly interested in the growth of the department and the cause of good roads, I would suggest that they familiarize themselves with the work accomplished by the department since its organization in 1905.

## HIGHWAY BOARD.

# ERNEST LISTER, Chairman, Governor.

C. W. CLAUSEN,

E. F. BLAINE,

State Auditor.

Chairman Public Service Commission.

EDWARD MEATH,
State Treasurer.

James Allen, Secretary, Highway Commissioner.

## DEPARTMENTAL ROSTER.

## JAMES ALLEN, Highway Commissioner

H. G. PORAK,
Assistant Highway Commissioner

GEO. F. COTTERILL, Chief Engineer

E. R. HOFFMAN, Chief Draftsman

CHAS. L. DUFAULT, Right-of-Way Agent

GEORGIA MELVILLE, Accountant.

## RECOMMENDATIONS.

I hereby make the following recommendations, believing that the adoption of them will result in greater efficiency and economy:

- (1) That no new state roads be established until the present system of state roads is completed.
- (2) That the apportionment to the various highways of the amount appropriated from the Public Highway Fund for the survey, construction and maintenance of primary and secondary highways of the state be left entirely in the hands of the State Highway Board. In this way the appropriation will be expended on such sections of state roads as are mostly in need of improvement, and will insure the completion of the system of state roads at the earliest possible date and in a most economical manner.
- (3) That chapter 59, Session Laws of 1915, be modified to provide that 10 per cent of the taxes collected from the one mill levy for the construction and repair of state highways and bridges shall be set aside by the State Treasurer and used exclusively under the direction of the Highway Commissioner for the repair and maintenance of state roads that shall have been established and constructed.
- (4) That 25 per cent of the surplus of all automobile license fees collected by the Secretary of State over and above the expenses of the issuing of such licenses be placed to the credit of the Public Highway Fund for the maintenance and repair of primary state highways, and to be expended under the direction of the State Highway Commissioner and upon vouchers approved by him.
- (5) That the permanent highway acts requiring that all permanent highway contracts be awarded on the lump sum basis be changed to provide that the contracts may, at the option of the Highway Commissioner, be awarded on the unit price basis.
- (6) That the five state rock quarries be disposed of at the earliest possible date. During the present biennium only two

of the quarries were operated at all. In the plants standing idle the machinery is fast deteriorating. Unless it is soon disposed of it will be practically worthless in a very short time. It is necessary to employ watchmen at a big expense to prevent the equipment from being carried away. On account of the radical changes in recent years in the type of road construction there is little demand for the products of the quarries, with the exception of that of the Meskill and Dixie plants. From the investment of \$259,890.67 but little benefit is being received, and the disposal of the rock crushing plants is, I believe, the only logical solution of the problem.

In the following pages of this report is contained a complete statement of the cost of construction and operation of these plants.

# Section One STATE ROADS

### DESCRIPTION.

Prior to the Legislative Acts of 1911, highways of the State of Washington were classified as State Roads and State Aid Roads. During the session of 1911, the State Aid Road laws were repealed and Permanent Highways now take the place of them. During the legislative session of 1913, the State Roads were divided into two classes called Primary and Secondary roads. (The terms primary and secondary relate strictly to State Roads and not Permanent Highways.)

The following is a description of existing State Roads (Primary and Secondary) which have been authorized by legislative acts:

### PRIMARY HIGHWAYS.

## CENTRAL WASHINGTON HIGHWAY.

A highway connecting with the Inland Empire Highway at Pasco, Washington; thence by the most feasible route through Connell, Ritzville, Sprague, and Cheney to Spokane, Washington.

## INLAND EMPIRE HIGHWAY.

A highway connecting with the Sunset Highway at or in the vicinity of the city of Ellensburg; thence by the way of North Yakima, Kennewick, Pasco, Walla Walla, Dayton, crossing the Snake River in the vicinity of Central Ferry, Colfax, Rosalia, Spokane, Deer Park, Loon Lake, Colville, to the international boundary line at Laurier.

Inland Empire Highway, Eastern Route, First Division: A highway known as the eastern route of the Inland Empire Highway, shall commence at or in the vicinity of the town of Dayton, thence over the most feasible route, through the town of Pom-

eroy, to the Idaho and Washington state line where said line crosses the steel bridge known as the Lewiston and Clarkston bridge.

Inland Empire Highway, Eastern Route, Second Division: The second division of the eastern route shall commence at a point on the Idaho and Washington line where the same crosses the public road known as the Lewiston and Uniontown road, thence over the most feasible route through Pullman, Palouse and Garfield; thence in a northerly direction through Oakesdale, joining the Inland Empire Highway at the most practicable point, to be determined by the Highway Commissioner.

## McCLELLAN PASS HIGHWAY.

A highway starting at a connection with the Pacific Highway at Auburn, Washington; thence along the most feasible route through Enumclaw, following the route of former State Road No. 1, to North Yakima, Washington. (This was formerly established as State Road No. 1.)

White River Branch: At a point in Pierce County where said State Road No. 1 leaves the main channel of White River, a branch shall take off which shall follow up the White River Valley to a connection at the most practicable point with the Rainier National Park.

American River Branch: Another branch shall take off where Road No. 1 leaves the American River and shall follow said American River by the most feasible route to a connection with the Rainier National Park.

#### NATIONAL PARK HIGHWAY.

A highway starting from the Pacific Highway in the city of Tacoma; running thence southerly by the most feasible route to or near the town of Elbe, where it will branch, one section connecting with the government road in Rainier National Park at or near Ashford, Pierce County, and the other by the most feasible route through Mineral, Morton, Klickitat Prairie, Forest, Chehalis, Pe Ell, South Bend, to the ocean beach at Holman

in Pacific County. (This highway includes State Road No. 18 and a part of State Road No. 5.)

## OLYMPIC HIGHWAY.

A highway starting from the Pacific Highway in Olympia, Washington, combining roads numbers nine (9) and fourteen (14), and completely circling the Olympic Peninsula, through the cities of Shelton, Hoodsport, Duckabush, Quilcene, Port Angeles, Hoquiam, Montesano, Elma and McCleary, reuniting with the Pacific Highway at Olympia.

### PACIFIC HIGHWAY.

A highway starting at the international boundary line at Blaine, Washington; thence southerly by the most feasible route through the cities of Bellingham, Mount Vernon, Everett, Bothell, Seattle, Renton, along the easterly side of the White River Valley through Kent, Auburn, Tacoma, Olympia, Tenino, Centralia, Chehalis, to the southern boundary line of the state at the city of Vancouver, Washington. (What was formerly known as State Road No. 6 forms a part of this highway.)

## SUNSET HIGHWAY.

A highway starting from the Pacific Highway at Renton, Washington; thence over the most feasible route through Snoqualmie Pass; from Snoqualmie Pass southeasterly by the most feasible route by way of Easton and Cle Elum to Ellensburg; thence by the most feasible route to the Columbia River near Vantage; thence by the most feasible route to Wenatchee; thence over the most feasible route, through Waterville and Spokane, to the state boundary, which shall be known as the Sunset Highway.

## SECONDARY ROADS.

State Road No. 4, or the Sanpoil-Loomis Road: This road shall begin at the mouth of Sanpoil Creek on the Columbia River, and run thence as nearly as practicable over the present road to the city of Republic in Ferry County, Washington, and

thence from said city of Republic over the present traveled road as nearly as may be practicable to the town of Loomis, in Okanogan County, Washington.

Lincoln County Extension of State Road No. 4: Beginning at the mouth of the Sanpoil River on the north bank of the Columbia River in Ferry County, and extending thence southerly by the most practicable route to the town of Wilbur on the Central Washington Railroad in Lincoln County, Washington.

Kettle River Extension of State Road No. 4: This road shall begin at the city of Republic in Ferry County and run thence by the most feasible route to Curlew in said county; thence by the most feasible route along the east river bank of Kettle River to the international boundary line near the town of Ferry.

State Road No. 5, or the Cowlitz-Natches Road: This road shall begin at Riffe postoffice in Lewis County, thence up the Cowlitz River and its tributaries by way of Kosmos and Randle by the most feasible route to a connection with the McClellan Pass Highway.

State Road No. 7: Extension over the existing county roads of State Road No. 7 westerly to Renton, and thence to and along the west shore of Lake Washington to the city of Seattle, and the extension of State Road No. 7 easterly by the way of Swauk and Peshastin creeks and the Wenatchee Valley to the city of Wenatchee; thence to a point on the sixth standard parallel north in Douglas County near the town of Waterville; thence easterly over the existing county road as nearly as practicable through the towns of Coulee City and Wilbur and the city of Spokane to the Idaho line at the point where it intersects the north bank of the Spokane River.

State Road No. 8, or the Columbia River Road: This road shall begin at the town of Washougal in Clarke County, Washington, and run thence over the line as surveyed for such state

road through Clarke and Skamania counties, and thence over the most practicable route to the town of Goldendale, in Klickitat County. Extension of Secondary Highway No. 8, beginning at the town of Washougal, in Clarke County, the present western terminus of Secondary Highway No. 8, and extending westerly by the most feasible route to Vancouver, Washington. Also commencing at the town of Goldendale, in Klickitat County, the present eastern terminus of said road, and extending the same northeasterly by the most feasible route to Mabton, in Yakima County.

State Road No. 10, or the Wenatchee-Oroville Road: This road shall begin at the lower bridge on the Wenatchee River in Chelan County, Washington, and shall run thence over the present constructed state road to Maple Creek; thence by the most practicable route to the town of Pateros, in Okanogan County; thence over the present constructed county road as nearly as practicable through the towns of Brewster and Okanogan, and thence by the most practicable route to the north line of Okanogan County, Washington, near the town of Oroville.

State Road No. 11, or the Skagit River Road: This road shall begin at Marblemount in Skagit County, Washington, and shall run thence in a northerly direction up the Skagit River by the most practicable route to make connection with the present wagon road near the mouth of Mill Creek; thence by the most practicable route to Barron, in Whatcom County, Washington.

State Road No. 12, or the Methow-Barron Road: This road shall begin in the county road on the south side of and near the mouth of the Methow River, and shall follow as nearly as practicable the present surveyed line for such road, to the 20-mile post; thence by the most practicable route to the town of Winthrop; thence up the south fork of the Methow River Valley and over the summit of the Cascade Mountains, by the most practicable route, to Barron, in Whatcom County, Washington.

State Road No. 15, or the Lewis River Road: Beginning at Woodland in Cowlitz County and running thence up the north bank of Lewis River, following as nearly as practicable the county road, and continuing to the mouth of the Big Muddy, a tributary of Lewis River in Skamania County.

State Road No. 16, or the Garfield-Asotin Road: Beginning at a point where the county road intersects the north line of the northeast quarter of Section 4, Township 9 North, Range 42 East, W. M., in Garfield County, and running thence in a southerly course by the most feasible route along the divide between the Tucannon River and Pataha Creek and the divide between the Tucannon River and Asotin Creek to the summit of the Blue Mountains, near what is known as Summit Springs; thence by the most feasible route southerly to the divide between Wenatchee and Grouse creeks, thence following the divide southwesterly to the Asotin County road near the upper crossing of Grouse Creek at or near the line between Sections 5 and 6, in Township 6 North, Range 43 East, W. M., in Asotin County, Washington.

State Road No. 17, or the Island-Skagit Road: The same being a road and two bridges crossing the United States Military Reservations Nos. 14 and 15 and connecting the county roads of Island and Skagit counties.

State Road No. 18: Beginning at Alder in Pierce County and running in a southerly direction by the way of Elbe to a point in State Road No. 5 near Kosmos in Lewis County.

State Road No. 19: This road shall begin at the town of Kelso in Cowlitz County, and run thence by the most feasible route through the towns of Cathlamet and Skamokawa in Wahkiakum County, to the town of Naselle in Pacific County, thence by the most feasible route to a connection with the National Park Highway.

State Road No. 20: This road shall begin at the town of Raymond in Pacific County and run thence by the most feasible route to Aberdeen in Chehalis County.

State Road No. 21: This road shall begin at Kingston, thence by the most feasible route through Port Gamble, Poulsbo and Bremerton to a connection with the Olympic Highway between Shelton and Hoodsport in Mason County.

State Road No. 22: This road shall begin at Meyers Falls in Stevens County, and run thence through Kettle Falls, Daisy, Gifford, Cedonia and Hunters to Fruitland; thence through and across the Detillion bridge across the Spokane River to a connection with the Sunset Highway at Davenport in Lincoln County.

State Road No. 23: This road shall begin at the city of Spokane in Spokane County, and run thence by way of Mead to the town of Newport.

North Central Highway: This road shall begin at the city of Davenport in Lincoln County and run thence southerly and westerly by the most feasible route through Harrington, Odessa, Krupp and Ephrata to a connection with the Sunset Highway.

# CONSTRUCTION.

Under the present statutes the primary highways are constructed and maintained at the expense of the Public Highway Fund of the state, and are under the immediate supervision and control, both for construction and maintenance, of the State Highway Department. The secondary highways are constructed by the state from the Public Highway Fund, but are required to be maintained by the counties in which they are located, and in the event that any county does not desire to maintain such secondary highways, the state may abandon the same as a public highway, and allow the right of way to revert to the abutting property.

In 1913, 5 per cent of taxes collected under the Public Highway levies was set aside and used exclusively for the repair and maintenance of primary highways which had been established and constructed. In 1915 this maintenance fund was increased to 7½ per cent of the taxes collected from the levies from the Public Highway Fund.

Prior to 1905, as far back as 1893, various state highways and trails were authorized by the state legislatures, but no work of a permanent nature was done. From April 1, 1905, to March 31, 1913, approximately \$1,000,000 was expended on state roads during this eight-year period, covering an improvement of approximately 193 miles of road.

Under the present road program as authorized by the state legislatures of 1913 and 1915, for the construction and maintenance of highways in the state, a levy of one and one-half mills is made for the construction and maintenance of permanent highways, and a levy of one mill for the construction and maintenance of state roads, primary and secondary. From these levies approximately \$2,500,000 is secured annually for the construction of state roads and permanent highways, adding approximately four hundred miles of improved roads each year to the road system of the state. Many sections of the state have already been opened up to road communication which heretofore have been practically inaccessible.

## CENTRAL WASHINGTON HIGHWAY.

	New Oo	New Construction (Miles)		
SECTION	April 1,	1915-1917	Total April 1, 1917	
Adams county		19.5 4.25	19.5 4.25	
Totals		28.75	23.75	

There was appropriated for the survey and construction of the Central Washington Highway from Ritzville northerly the sum of \$59,036.00.

A location survey was made of the section between Ritzville and Sprague in Adams and Lincoln counties, a distance of 23.75 miles. A contract was awarded by the Highway Board to Mitchell Brothers of Spokane, Washington, for the construction of the entire section. The roadway is of standard section, 30 feet in cuts and 24 feet in fills.

.



80-foot Concrete Arch Bridge Over Mashel River, Pierce County.



470-foot Cantilever Arch Bridge Over Cowlitz River at Mayfield, Lewis County.

The work under this contract consisted of grading and construction of drains, and one 20-foot reinforced concrete arch. The amount of work done under this contract was \$40,622.64.

By resolution of the Highway Board, the graveling of this section, and protecting of the grade, was authorized with the balance of the fund available after the completion of the contract.

The work under Mitchell Bros. contract was completed in September, 1916.

STATEMENT.

Appropriation			\$59,036 0	0
Estimates and force account	\$29,032	00		
Engineering (location and construction)	8,609	23		
Right of way	600	00		
Advertising and miscellaneous	60	65		
Balance Oct. 1, 1916 (including retained				
per cent)	20,734	12		
Total		<del>-</del>	\$59,036 0	0

## INLAND EMPIRE HIGHWAY.

	New Co	nstruction	(Miles)	Old Boa	is Gravelle	d (Miles)
SECTION	April 1, 1915	1915-1917	Total April 1, 1917	April 1, 1915	1915-1917	Total April 1, 1917
Stevens county Spokane county Whitman county Whitman county (2d division) Oolumbia county Walls walls county Benton county	26.1 17.0 24.4	5.0 12.7 17.0 5.8 9.2 11.6	5.0 26.1 29.7 17.6 5.8 38.6 11.6	1	6.8	
Yakima county		1.6	1.6			
Totals	67.5	66.2	180.70		24.1	26,1

The following amounts were appropriated or reappropriated for the survey and construction of the Inland Empire Highway:

Colville South	\$29,518	00
Spokane South	3.076	74
Colfax North and South	50,077	09
Rosalia South 2nd Division	27,008	00
Pullman South 2nd Division	30,000	00
Walla Walla N. E	32,909	57
Walla Walla West	31,649	92
Kennewick West	34,336	00
Ellensburg-North Yakima	10,000	

Colville South: The section of road improved under this appropriation extends from the city limits of Colville southerly a distance of five miles. Two contracts were awarded. The one for grading the five-mile section was let to Mr. E. D. Miner of Colville, Washington, the final estimate for this work being \$11,798.19. The road was graded to the standard section, 24 feet in fills and 30 feet in cuts, with a maximum grade of 5 per cent.

The contract for surfacing this section which was graded under Mr. Miner's contract was awarded to H. C. Root of Spokane. The surfacing consisted of gravel and shale 4 inches deep and 14 feet wide. The final estimate on this contract amounted to \$3,203.37. This contract was completed in July, 1916.

In addition to the two contracts mentioned above, \$699.88 was expended by day labor in making further improvement of this section. The total cost of grading and graveling this section was \$15,701.44, or \$3,140.00 per mile. The cost is segregated as follows:

Appropriation		\$29,518 00
Estimates and force account	\$15,701 44	
Engineering (location and construction)		
Right of way	350 00	
Advertising and miscellaneous	202 52	
Balance Sept. 30, 1916		

STATEMENT.

Cotal.....\$29,518 00

Spokane South: The unexpended balance of the 1913-15 appropriation for this section of the Inland Empire Highway, amounting to \$3,076.74, was reappropriated. This was expended by day labor in surfacing the worst places in the road between Spokane and Rosalia.

Colfax North and South: From the appropriation of \$50,007.09 for this section, the following contracts were awarded and completed:

Contract No. 227: This improvement consisted of grading 4.0 miles between Steptoe and Cashup in Whitman County by

the General Construction Company. This work was completed August 11, 1915, the final estimate amounting to \$13,261.49 or \$3,315.00 per mile for grading only.

Contract No. 225: Under this contract 5.5 miles of road was graded, beginning at the end of the permanent highway south of Colfax and extending southerly toward Central Ferry to Union Flat Creek. The construction of one 40-foot reinforced concrete arch was included under this contract. This work was done by the H. L. Wilson Company, and was completed January 1, 1916. The final estimate was \$22,110.57, the cost, including 40-foot arch, \$4,020 per mile.

Contract No. 250: This consists of an extension of Contract No. 225, extending southerly from Union Flat Creek a distance of 3.0 miles. This contract was awarded to H. C. Root of Spokane and was completed December 7, 1915, the amount of the final estimate being \$11,835.40. The cost of grading this extension was \$3,945 per mile.

The following is a statement of the condition of this appropriation September 30, 1915:

Appropriation		\$50.077	09
Estimates and force account		, ,	
Engineering (location and construction)	3,909 84		
Right of way	192 00		
Advertising and miscellaneous	307 02		
Total		\$50.077	09

Rosalia South, Second Division—Contract No. 262: Under this contract 8.9 miles of road were graded between Rosalia and Oakesdale on the second division of the eastern route. The contract was awarded to the General Construction Company and will be completed about October 15, 1916.

## STATEMENT.

Appropriation		\$27,008	00
Estimates and force account	\$16,799 72		
Engineering (location and construction)			
Right of way	110 00		
Advertising and miscellaneous	21 60		
Balance Sept. 30, 1916 (including retained			
per cent)	6,325 09		
Total		\$27,008	00

Pullman South, Second Division—Contract No. 259: A section beginning at a point about four miles south of Pullman, and extending southerly a distance of 8.7 miles to Colton, was graded under contract with G. L. Stickler of Davenport, Washington. The roadbed is of standard cross-section, and no grades exceed 5 per cent. The work was completed in August, 1916. Final estimate, \$23,509.25. Cost of grading per mile, \$2,702.00.

### STATEMENT.

~~~~~		
Appropriation		\$30,000 00
Estimates, force account, etc	\$24,153 67	
Engineering (location and construction)	4,128 55	
Right of way	1,032 56	
Advertising, etc	63 30	
Balance Sept. 30, 1916	621 92	
Total		\$30,000 00

Walla Walla Northeasterly—Contract No. 256: Awarded to General Construction Company for grading 6.8 miles of road extending northeasterly from Waitsburg toward Dayton. A number of bad grade crossings have been eliminated by the new location. This work was completed June 26, 1916. Final estimate, \$17,923.09.

In addition to the above, \$1,060.87 was spent by day labor on this section, making the total cost of grading \$18,983.46, or \$2,792.00 per mile. This section has been surfaced by Columbia and Walla Walla counties from the permanent highway funds.

Plans have been completed and the work will be advertised for grading about two miles of the section extending northerly from Dayton toward Central Ferry, with the unexpended balance of the appropriation.

STATEMENT.

Appropriation		\$32,909 57
Esumates, force account, etc	\$20,750 39	*
Engineering (location and construction)	3.985 52	
Right of way	1 542 65	
Advertising, etc	78 6 5	
Balance Sept. 30, 1916	6,552 36	
Total		\$32,909 57

Walla Walla West—Contract No. 261: Awarded to H. L. Wilson Company of Walla Walla. Consists of grading about 6.7 miles of road between Touchet and Wallula, including several reinforced concrete bridges. This contract was completed in September, 1916. Final estimate, \$27,880.92.

STATEMENT.

Appropriation		\$31,649 92
Estimates, force account, etc		• •
Engineering (location and construction)	3,629 36	
Advertising, etc	48 90	
Balance Sept. 30, 1916	21 49	
•		
Total		\$ 31.649 92

Kennewick West—Contract No. 260: This improvement consisted of the construction of one 40-foot reinforced concrete arch and grading 11.6 miles of road beginning at Kiona and extending easterly toward Richland. The contract was awarded to the H. L. Wilson Company of Walla Walla. The work was completed in August, 1916. Final estimate, \$20,879.97.

The unexpended balance as shown by the statement below will be used in surfacing with gravel and otherwise protecting the portion graded under Contract No. 260.

STATEMENT.

Appropriation		\$34,336 00
Estimates, force account, etc	\$21,077 33	, ,
Engineering (location and construction)	5,989 63	
Right of way	13 25	
Advertising, miscellaneous, etc	7 40	
Balance Sept. 80, 1916	7,248 39	
Total		\$34,336 00

Ellensburg-North Yakima—Contract No. 234: This improvement began at a point about 700 feet northerly of the southern boundary line of Section 31, Township 17 North, Range 18 East, W. M., and extended in a southwesterly direction a distance of one mile. Approximately one-fifth of the improvement lies in Kittitas County, the remainder in Yakima County. The contract was awarded to the Quigg Construction Company of Wenatchee and called for a 20-foot roadbed both in cuts and fills.

This work was completed August 27, 1915, the final estimate being \$4,417.90.

In addition to this contract, the sum of \$3,904.74 was expended by day labor in improving about 0.8 miles of road between Ellensburg and North Yakima, which were badly in need of improvement.

STATEMENT.

Appropriation Estimates, force account, etc Engineering (location and construction)	\$8,322 64	\$10,000 00
Right of way		•
Advertising, etc.	7 88	
Balance Sept. 30, 1916	613 52	
Total		\$10,000 00

McCLELLAN PASS HIGHWAY.

	New Construction (Miles)			Old Roads Gravelled (Miles)		
SECTION	April 1, 1915	1915-1917	Total April 1, 1917	April 1, 1915	1915-1917	Total April 1 1917
King county Pierce county Yakima county		8.5 14.0	6.4 8.5 19.6	7.2	18.5	20.7
Totals	12.0	22.5	84.5	7.2	18.5	20.7

The following appropriations were made for the survey and construction of the McClellan Pass Highway:

Enumciaw to Summit	\$90,225	64
Naches to Summit	57.684	11

Enumclaw to Summit: The location of this section of the McClellan Pass Highway between the Greenwater River and the Summit was completed during 1915.

Contract No. 265: This improvement extends from the Greenwater River easterly along the White River a distance of 8.5 miles. The contract for this improvement was awarded to Sloane Brothers, Seattle, Washington, for the sum of \$48,867.60, based upon the preliminary estimate. The width of roadbed is 20 feet in cuts and in fills. On September 30, 1916, this work is approximately 85 per cent completed.

Contract No. 216: Approximately 13.5 miles of the old road, previously constructed on this highway from the Green-

water River westerly toward Enumciaw, was resurfaced with gravel by the Department under the day labor system. The sum of \$25,679.59 has been spent to date on this work.

With the completion of the permanent highway just east of Enumclaw this highway will be in excellent condition as far as the improvements extend.

STATEMENT.

Appropriation		\$90,225 64
Estimates, force account, etc	\$44,939 59	• •
Engineering (location and construction).,	10,298 24	
Advertising and miscellaneous	28 50	
Balance Sept. 30, 1916	34,959 31	
- ·		
Total		\$90,225 64

Naches to Summit—Contract No. 249: In August, 1915, bids were opened and a contract awarded to Rajotte, Fobert & Winters for the construction of 14 miles of this highway between Naches and the Summit in Yakima County. The roadbed on this section is 20 feet in width. The work under this contract was completed July 6, 1916. The final estimate was \$47,115.18 or \$3,365.00 per mile for grading.

In addition to the above, the sum of \$3,564.45 has been expended by day labor in riprapping, surfacing and otherwise protecting the portion graded under Contract No. 249.

STATEMENT.

Appropriation Estimates, force account, etc Engineering (location and construction). Advertising, miscellaneous Balance Sept. 30, 1916	\$50,679 6,897 96	68	\$57,684 11
Total			\$57.684.11

NATIONAL PARK HIGHWAY.

	New Construction (Miles)			Old Roads Surfaced (Miles)		
SECTION	April 1, 1915	1915-1917	Total April 1, 1917	April 1, 1915	1915-1917	Total April 1, 1917
Pierce county Lewis county Pacific county	4.3 5.5 2.5	1.5 9.0 10.8	5.8 14.5 12.8	2.7 5.1	5.0 5.5 4.2	5.0 8.2 9.3
Totals	12.8.	20.8	88.1	7.8	14.7	23.5

The following appropriations were made by the 1915 Legislature:

Alder to Elbe	\$10,000 00
Mineral to Morton	71,700 00
Nemah to Ocean	76,82 1 85
Mayfield Bridge	30,000 00
Mashell Bridge and approaches	35,000 00

ALDER-ELBE.

The work done under the appropriation for this section consisted of surfacing with gravel about five miles of grade previously constructed and improving drainage, etc. This work was done by the Department under the day labor system. The sum of \$8,646.63 was expended September 30, 1916.

MINERAL-MORTON.

The work on this section of the National Park Highway was also done under the day labor system. Eight miles of new work was opened up and completed under the 1915 appropriations, three and one-half miles of which were surfaced with gravel by day labor. This work was completed in October, 1915.

Contract No. 253: In August, 1915, a contract was awarded to Torger Peterson, for surfacing with gravel, ten miles of this road between Mineral and the east fork of Tilton River; 10,134 cubic yards of material were placed. This work was completed November 20, 1915. Final estimate, \$19,761.80.

STATEMENT.

Appropriation		\$71,700 00
Transferred to Mayfield bridge fund		, , -
Transferred to Mashell bridge fund	4,664 59	
Estimates, force account, etc	63,850 83	
Engineering (location and construction)	1,650 27	
Right of way	1,244 91	
Advertising, etc	47 90	
Total		\$71,700 00

Nemah to Ocean—Contract No. 204: This contract was awarded to the Raymond Construction Company on July 20, 1914, for clearing, grading and draining two miles of this highway from Bear River westerly in Pacific County, but on ac-

count of the short season the contractor was unable to complete the work within the time specified. The unexpended balance on April 1, 1915, was reappropriated and the contract completed from the reappropriation. This improvement called for a 16-foot roadway. This work was completed July 29, 1915. The final estimate for this work was \$9,708.70, of which the sum of \$4,681.82 was paid from the 1915 reappropriation.

Contract No. 252: This contract, providing for the clearing, grading and draining of 7.0 miles of this highway between Nemah and the Nasel River in Pacific County, was awarded to the Burnett Construction Company of Seattle, Washington. A roadway 20 feet wide is being constructed. On September 30, 1916, this contract is approximately 75 per cent completed.

Contract No. 274: This contract, providing for the clearing, grading and draining of 3.3 miles of the National Park Highway westerly from Bear River in Pacific County was awarded to Mr. M. P. Zindorf on August 10, 1916, for the lump sum of \$24,885.00. The width of roadbed on this section is 22 feet in cuts and 20 feet in fills. The date for the completion of this contract is April 20, 1917. Approximately 10 per cent of the work was completed September 30, 1916.

STATEMENT.

Appropriation	\$28,715	27	\$76,821 85
Advertising, etc.	90	80	
Balance Sept. 30, 1916			
Total			\$76,821 85

Mayfield Bridge: The plans for this bridge were designed by this Department. The structure is a deck cantilever arch bridge, consisting of two anchor spans with cantilever arms, each 196 feet in length, and one suspended span 78 feet in length. The total length of the structure is 470 feet. The trusses are designed to carry a uniform live load of 80 lbs. per sq. ft. over the entire structure and the floor system a concentrated load consisting of a 20-ton road roller; 277.8 tons of

steel were required in superstructure. The bridge spans a deep ravine in the course of the Cowlitz River. The height of the floor above low water is 115 feet and that above high water 62 feet. The roadway is 20 feet in width.

Contract No. 237: The contract for the completion of this structure was awarded to N. H. Beer of Seattle on June 14, 1915. The work was completed January 17, 1916. Final estimate, \$29,008.50.

The sum of \$241.50 was transferred to the Mayfield Bridge Fund from the Mineral-Morton Fund.

STATEMENT.

Appropriation			\$30,000 241	
Estimates, force account, etc Engineering (preliminary and construc-				
tion)	1,146	80		
Advertising and miscellaneous	79	20		
Total -			\$30 241	50

Mashell Bridge and Approaches: The work under this appropriation consisted of the relocation and construction of the highway across the Mashell Canyon in Pierce County, and the construction of an 80-foot span, reinforced concrete arch bridge of the Luten type, across the Mashell River. The sum of \$4,664.59 was transferred from the Mineral-Morton appropriation to this fund.

Contract No. 226: This contract consisted of clearing, grading and draining the approaches to the Mashell River bridge. The improvement is one mile in length. Approximately 80,952 cu. yds. of material were required to be moved. The contract was awarded to Kendle and Eppler of Eatonville, Washington, in May, 1915. The final estimate on this contract amounted to \$22,967.25. The work was completed June 1, 1916.

Contract No. 243: This contract was awarded to H. C. Malott of Seattle, Washington, for the construction of the 80-foot span, reinforced concrete arch bridge over the Mashell River in July, 1915. Approximately 900 cu. yds. of concrete

and 20,000 lbs. of steel were required in the structure. This work was completed on May 22, 1916. Final estimate, \$9,-901.91.

STATEMENT.

Appropriation		\$35,000 00 4.664 59
Estimates, force account, etc	\$36,328 00 2,568 04 630 20	1,001 00
Advertising and miscellaneous	138 35	6 20 664 E0

OLYMPIC HIGHWAY.

	New Co	nstruction	(Miles)	Old Roads Gravelled (Mil		
SECTION	April 1, 1915	1915-1917	Total April 1, 1917	April 1, 1915	1915-1917	Total April 1, 1917
Thurston county Mason county Jefferson county Challam county Grays Harbor county	9.0 9.3	7.75 8.5 5.9 8.0 10.5°	7.75 17.5 15.2 3.0 18.4		15.2 9.8	15.2 9.3
Totals	26.2	35.65	61.85		24.5	24.5

^{* 10.5} miles cleared and grubbed only:

The following appropriations were made by the 1915 Legislature:

Mud Bay to McCleary	\$38,500	00
Shelton to Quilcene	96,250	00
East Beach to Piedmont	9,625	00
Lake Oninjoult Northwesterly	48 990	Q£

Mud Bay to McCleary, Thurston County—Contract No. 245: The contract for this improvement, consisting of clearing, grading and draining about 7.75 miles on this section extending from the county line between Thurston and Grays Harbor counties to Mud Bay in Thurston County, a point about $5\frac{1}{2}$ miles west of Olympia, was awarded to Rignell and Bankston of Tacoma, Washington, in July, 1915.

The work under this contract was completed on February 1, 1916. Final estimate, \$34,301.55. This improvement connects with the existing road to McCleary, and cuts off twelve miles from the distance between Olympia and Elma by the old route.

This saving of twelve miles will apply equally as well to all travel between Puget Sound and Grays Harbor points. This road, however, will require surfacing to make it suitable for winter traffic. Its usefulness has been demonstrated during the past summer and it should be made an all-year road.

STATEMENT.

Appropriation		\$38,500 00
Estimates, force account, etc		4
Engineering (location and construction)		
Right of way	2,025 04	
Advertising, etc	102 17	
- -		
Total		\$22 500 00

Shelton to Quilcene: Within the past four years this section of the Olympic Highway has undergone a great change. Highway communication was opened up for the first time between the Hood Canal and other parts of the state, and a good gravel roadway constructed on easy grades. The new road affords not only an outlet to settlers along the canal who have hitherto been dependent upon water transportation, but has proved to be a very popular drive for automobilists as well.

Contracts Nos. 212 and 221: The work under these contracts was performed by this department under the day labor system. Two portions of this section were improved. The first beginning at a point on the old road about 5.5 miles north of Shelton and extending northerly a distance of 10.5 miles by way of Purdy Canyon to a point 1½ miles south of Hoodsport, crossing the Skokomish River about 1½ miles below the bridge on the old road. Two miles of this portion was partly graded by Mason County. The greater part of this improvement is entirely new construction, of standard width of roadbed, eliminating the dangerous Webb Hill. At the crossing with the Skokomish River a 195-foot steel span is being constructed under Contract No. 248.

The second portion improved under this contract, began at a point approximately 4 miles north of Duckabush and covered a distance of 3.9 miles, 2.5 miles of which was constructed by

force account contract with J. Coyne. The work consisted of clearing, grading, draining and surfacing. These two portions were completed at a cost of \$77,362.48, or \$5,372.00 per mile. This included the construction of a 119-foot Howe truss timber bridge over the Duckabush River.

Contract No. 248: This improvement consists of the construction of a 195-foot steel Petit through truss over the Skokomish River in Section 15, Township 21, North, Range 4 West, W. M. Bids were opened in August, 1915, and the contract awarded to Yelverton & Wolf of Olympia, Washington. The contract called for the completion of the work on February 1, 1916. During the freshets in December, 1915, however, the falsework for the superstructure was taken out and a portion of the steel was lost in the river. On account of damage to the steel, it was necessary to have new members fabricated to replace those damaged or lost. An extension of time, in which to complete the contract was accordingly granted. The work was finished on October 9, 1916. The final estimate amounted to \$12,677.68.

STATEMENT.

Appropriation		\$96,250	00
Estimates, force account, etc	\$82,403 71	, ,	
Engineering (location and construction)			
Right of way	1,198 04		
Advertising, etc	45 80		
Balance Sept. 30, 1916	5,952 48		
Total		\$96,250	00

East Beach to Piedmont, Clallam County—Contract No. 220: The work under this improvement was performed by Hugh E. Govan, by force account, and consisted of clearing, grading and draining. It was started in May, 1915, and completed on August 21, 1915. A roadbed 20 feet wide was constructed.

STATEMENT.

Appropriation			\$9,625	00
Force account	\$8,754			
Engineering (location and construction)	786	91		
Balance Sept. 30, 1916	83	57		
Total			\$9 625	00

Lake Quinault Northwesterly—Contract No. 258: Inasmuch as the appropriation for the survey and construction of the Olympic Highway northwesterly from Lake Quinault was insufficient to construct a road that would be of any advantage to the traveling public, the Highway Commissioner was instructed to undertake by day labor the clearing and grubbing of this road to be carried as far as the money available would permit. Work was started on this improvement in October, 1915. To September 30, 1916, 46.6 acres have been cleared and grubbed, representing a distance of 9.5 miles, at a cost of \$592.00 per acre, divided as follows: Clearing, \$287.00 per acre, grubbing, \$305.00 per acre. The location of this section has been completed to the Queets River.

STATEMENT.			
Appropriation Force account Engineering (location and construction) Right of way	\$32,999 26 6,189 04	\$48,175 0	0
Balance Sept. 30, 1916	8,882 05		
Total		\$48,175 0)0

PACIFIC HIGHWAY.

	New Co	nstruction	(Miles)	Old Roa	ds Surface	d (Miles)
SECTION	April 1, 1915	1915-1917	Total April 1, 1917	April 1, 1915	1915-1917	Total April 1, 1917
Whatcom county		2.75	9.65 8.8		10.2 3.8	10.2 8.8
Snohomish county King county	6.5	3.88 2.06	9.88 2.06	1		
Pierce county		2.8	2.8 8.0		•••••	
Lewis county	1.75	4.2	5.96		1.75	1.75
Cowlitz county	5.04 8.7	8.88 8.5	8.87 12.20	2,0	5.3 8.4	5.8 5.4
Totals	27.69	34.97	62,66	2.0	24.45	26.45

The Legislature of 1915 appropriated \$423,389.00 for surveys and construction on the Pacific Highway divided as follows:

North of King County	\$147,377 00
Renton to Kent	34,387 00
Olympia to Tacoma	49,175 00
Toledo to Vancouver	192,500 00

North of King County—Contract No. 223: In May, 1915, bids were opened for surfacing 3.0 miles of the Pacific Highway between Blaine and Custer in Whatcom County and the contract was awarded to Worthen and Satterthwaite of Lynden, Washington. The work under this contract consisted of surfacing with gravel 8 inches deep and 16 feet wide. The work was completed on September 30, 1915. Final estimate, \$6,445.70.

Contract No. 247: The work under this contract consisted of clearing, grading, draining and surfacing about 2.75 miles of road between Custer and Enterprise. Width of roadway, 31 feet in cuts and 24 feet in fills. Surfacing, 14 feet in width and 6 inches in depth. Bids were opened in July, 1915, and the contract awarded to Chas. E. Lind, of Bellingham, Washington. The work was completed on January 31, 1916. Final estimate \$12,169.94.

Contract No. 217: The work under this improvement covering the section between Blanchard and Bellingham was performed by S. Murchison under a force account contract awarded on May 31, 1915. The work consisted of widening the roadbed from a width of 16 feet to a width of 20 feet and constructing concrete trestles and concrete retaining walls on about 5 miles of the Waterfront Road in Whatcom and Skagit Counties and reconstructing about 6 miles of the Pacific Highway between the Waterfront Road and Bellingham.

On the Waterfront Road, considerable difficulty was encountered during course of construction in preventing rock from being thrown on the Great Northern Railway Company track below the road. A number of claims were made by the Great Northern Railway Company for damages on this account. With the completion of the Waterfront Road one of the most scenic drives in the state has been opened to travel.

Between the Waterfront Road and Bellingham a large fill requiring about 16,700 cubic yards of material was made at Wild Cat Cove, thereby eliminating a steep grade on bad alignment and avoiding two crossings with the interurban tracks.

The sum of \$104,881.83 has been expended on the improvement of this section between Blanchard and Bellingham.

Contract No. 242: The work under this improvement consisted of clearing, grading, draining and surfacing 3.3 miles of the Pacific Highway from Marysville south in Snohomish County and was done by this department under the day labor system. This work was begun in July, 1915, and completed in November, 1915. The amount expended on this work was \$16,187.34. A standard roadbed 30 feet wide in cuts and 24 feet in fills was constructed and surfaced with gravel 16 feet wide and 6 inches deep.

STATEMENT.	•	•	
Appropriation	140,037 53	\$147,377	00
Total		\$147,377	00

Renton to Kent, King County: On April 25, 1916, the Highway Board established the location of the Pacific Highway between Renton and Kent as follows: Beginning at the southerly limits of the city of Renton, thence westerly along the section line between Sections 18 and 19, Township 23 North, Range 5 East, W. M., to the quarter corner between Sections 18 and 19; thence south along the north and south center line of Sections 19, 30 and 31, said township and range, a distance of approximately 2.3 miles to the intersection with the county road east of Orillia; thence along the most feasible route to the city of Kent.

On July 8, 1916, the Highway Commissioner was authorized to advertise for bids for the construction of the section between Renton and Orillia.

Contract No. 273: Bids for the clearing, grading and draining of this section, beginning at the city limits of Renton and extending southerly a distance of two miles toward Orillia, were opened on August 7, 1916, and the contract awarded to M. P. Zindorf of Seattle, Washington.

A roadbed 28 feet wide is being constructed. On September 30, 1916, the work under the contract was approximately 12 per cent completed. The preliminary estimate was \$17,148.00.





Heavy Clearing, Olympic Highway, near Lake Unintanit.



The contract calls for the completion of the work by November 15, 1916.

STATEMENT.			
Appropriation Estimates, force account, etc Engineering (location and construction) Advertising, etc	64 10 10	\$ 34,387	00
Total		\$34.387	00

Olympia to Tacoma: A large part of the old railroad grade between Lacey and Nisqually was obtained from the Northern Pacific Railway Company for highway purposes. The acquisition of this right of way enabled the department to secure a location for the Pacific Highway between these points on practically a level grade, and with good alignment, eliminating the dangerous Nisqually Hill on the old road. By widening the railroad grade an excellent roadbed was secured.

Contract No. 228: In May, 1915, bids were opened for clearing, grading and draining 8.0 miles beginning at Lacey and extending to the Nisqually River. The contract was awarded to L. H. Goerig of Seattle. A standard roadbed 30 feet in cuts and 24 feet in fills was constructed. The work was completed on November 6, 1915. Final estimate \$20,466.32.

Contract No. 218: On account of the long haul on material for the fill just east of Nisqually River in Pierce County, it was found that this work could be done most expeditiously by the railroad company by reason of having the necessary equipment and tracks already on the ground. Accordingly a contract was awarded to the Northern Pacific Railway Company on May 10, 1915, for making this fill 0.5 miles in length at 22½ cents per cubic yard of material placed. This work was completed on July 1, 1915, the cost of the work being \$3,561.75.

Contract No. 257: This improvement consisted of grading, draining and graveling about 2.8 miles of the Pacific Highway from Nisqually Station northerly under the day labor system. This work was started on November 9, 1915, and was completed on April 9, 1916.

The entire distance covered by Contracts Nos. 228, 218 and 257, in all about 10.8 miles in length was surfaced with gravel and maintained by dragging and resurfacing when necessary under the day labor system.

STATEMENT.

Appropriation	\$41,698 85 2,265 88 2,428 63	\$49,125 00
Advertising	57 35 2,674 29	\$ 49 195 00

Toledo to Vancouver—Contract No. 231: Bids for clearing, grading and draining of 6 miles of the Pacific Highway from Toledo southerly, being a continuation of the work done on this section in 1914, were opened in May, 1915, and a contract awarded to Andrew and Harrer of Portland, Oregon. The work was completed on October 20, 1915. Final estimate, \$20,567.26, or a cost of \$3,428 per mile. This section was surfaced under Contract No. 269.

Contract No. 269: In March, 1916, bids were opened and a contract awarded to Jarvis and Burkheimer of Seattle, Washington, for surfacing 7.7 miles of the Pacific Highway from Toledo southerly in Lewis and Cowlitz Counties, with gravel. The contract consists of surfacing 6 miles of the grading done under Contract No. 231 and the 1.7 miles of the road south of Toledo, which was constructed in 1914.

The contract called for the completion of the work on September 1, 1916; on account of the extremely wet season, however, an extension of time was granted. The estimated cost of the work under the contract is \$13,652.80. The work was 67 per cent completed on September 30, 1916.

Contract No. 222: In April, 1915, bids were opened for surfacing with crushed rock 2.0 miles of the Pacific Highway from Carrollton northerly in Cowlitz County, and a contract was awarded to Montague and O'Reilly Co., of Portland, Oregon. The 8-foot strip of surfacing placed in 1914 was widen-

ed to 16 feet. Crushed rock from St. Helens quarry was used, placed in two courses, rolled and sprinkled. Three Thousand One Hundred cubic yards of rock were placed. The contract was completed on July 1, 1915. Final estimate, \$6,198.50.

Contract No. 229: In June, 1915, a contract was awarded to Hendricks and Ward of Centralia, Washington, for clearing, grading and draining 1.5 miles of the Pacific Highway from Kalama northerly. A road of standard cross-section was constructed. This work was completed on August 12, 1915. Final estimate \$8,066.47. This section was surfaced with crushed rock by force account contract with Porter and Conley, at a cost of \$5,749.74.

Contract No. 224: Bids for this improvement were opened in April, 1915, and the contract awarded to Porter & Conley of Portland, Oregon, for surfacing with crushed rock 3.3 miles of the Pacific Highway from Kalama southerly in Cowlitz County. This portion of the Pacific Highway was graded by Honor Camp and day labor forces during the year 1914. The section of surfacing placed was 16 feet in width and 8 inches in depth, requiring 6,125 cubic yards of material. This work was completed August 13, 1915. Final estimate, \$12,507.17.

Contract No. 232: In June, 1915, bids were opened for surfacing with crushed rock 2.0 miles of the Pacific Highway between Woodland and LaCenter in Clarke County and the contract was awarded to Porter and Conley of Portland, Oregon. This work is an extension southerly of the surfacing done on this section in 1914. The rock was spread to a width of 16 feet and was laid in two courses, sprinkled and rolled with binder clay thrown in to a depth of 6 inches. Four Thousand Three Hundred and Twelve cubic yards of material was placed on this section at a total cost of \$8,536.28. It was completed on July 14, 1915.

Contract No. 241: Bids were called for clearing, grading and surfacing the remaining mile of the Woodland-LaCenter section. No bids, however, were received, so a force account

contract was awarded to the General Construction Company, of Spokane, Washington, for doing this work at cost plus 10 per cent, the General Construction Company being engaged at the time on the construction of the Vancouver northerly section of the Pacific Highway. This one mile of road was graded and surfaced with crushed gravel 16 feet wide and 2 inches of sand placed on top of the gravel. Satisfactory results were obtained in this way on account of the large per cent of binder clay in the gravel. This work was completed on October 2, 1915, at a total cost of \$11,400.19.

Contract No. 233: Bids were opened in June, 1915, for clearing and grading 7.5 miles of the Pacific Highway between Vancouver and LaCenter, beginning at the end of the pavement at Salmon Creek and extending northerly to Pioneer. A standard roadbed 30 feet wide in cuts and 24 feet wide in fills was constructed. The work was completed on September 16, 1915. Final estimate \$37,108.57.

On account of the clay formation, graveling was necessary so that the new work would be available for travel during the winter months. Accordingly a force account contract was awarded to the General Construction Company for doing this work at cost plus 10 per cent. Two crushers were secured from Clarke County and gravel hauling started on August 15, 1915.

Six miles of this section were surfaced with crushed gravel 16 feet wide; 35 cubic yards to the station and 1.1 miles were surfaced with a strip 8 feet wide. Work was shut down on November 15, 1915, on account of rain. The remaining .4 mile was planked in January, 1916. The cost of surfacing this section was \$30,460.26.

Contract No. 272: In July, 1916, bids were opened for surfacing with gravel 1.4 miles of the Pacific Highway between Vancouver and LaCenter and the contract was awarded to L. F. Kline. This work consisted of widening the 8-foot strip 1.1 miles in length, which was surfaced under Contract No. 233, to a width of 16 feet, and also surfacing .4 mile of plank road with gravel.

The contract for this improvement calls for the completion of the work on September 15, 1916. On September 30, 1916, practically all of the work was completed.

STATEMENT.

~			
Appropriation		\$192,500	00
Estimates, force account, etc	\$157,236 14		
Engineering	9,214 18		
Right of way			
Advertising			
Balance Sept. 30, 1916			
-			
Total		\$192,500	00

SUNSET HIGHWAY.

	New Construction (Miles)			Old Rose	ds Gravelle	ed (Miles)
SECTION	April 1, 1915	1915-1917	Total April 1, 1917	April 1, 1915	1915-1917	Total April 1, 1917
King county Eittitas county Douglas county Lincoln county		27.0 5.0 14.5	20.4 84.6 18.5 81.7		20.4 8.5 11.1	20.4 8.5 11.1
Totals	59.7	46.5	105.2		40.0	40.0

The following appropriations were made by the 1915 Legislature:

(1)	North Bend to Cle Elum	\$160,453 59
(2)	Ellensburg to Wenatchee	29,475 00
(3)	Wenatchee to Waterville	59,036 00
(4)	Reardan West	59.301 99

North Bend to Cle Elum: In 1914, twenty-eight miles of this section were constructed. During the present biennium this new construction extending from a point about four miles east of North Bend across the summit of the Cascades to the easterly end of Lake Keechelus, in all about 28.9 miles, was surfaced with gravel by the day labor system. The total cost of the work was \$81,838.00.

Contract No. 264: In January, 1916, bids were opened for grading and draining 18.5 miles of the Sunset Highway between Easton and Cle Elum in Kittitas County, and the contract was awarded to the General Construction Company of Spokane. The

construction of the reinforced concrete arch bridges required on this section was covered by Contract No. 267. A standard roadbed 20 feet in cuts and fills is being constructed. It is estimated that the work on this contract will be completed by October 15, 1916. The preliminary estimate for this work is \$29,564.50. The value of work done to September 30, 1916, is \$19,374.72.

Contract No. 267: The contract for the construction of the bridges between Easton and Cle Elum was awarded to the Security Bridge Company of Minneapolis, Minnesota, in January, 1916, for the sum of \$23,200. The work under the contract consisted of the construction of the following reinforced concrete arch bridges:

One 30-ft. span over Little Creek
One 50-ft. span over Big Creek
Two 65-ft. spans over Cle Elum River
Two 100-ft. spans over Yakima River

In this contract, as in most other contracts during the present year, the work has been considerably delayed on account of the scarcity of labor. It is estimated that the contract will be completed on December 1, 1916.

STATEMENT.

Appropriation		\$160,453 59
Estimates, force account, etc	\$111.024 06	
Engineering (location and construction)	4.835 84	
Right of way	1,127 49	
Advertising, etc	75 58	
Balance Sept. 30, 1916	43,390 62	
Total		\$160,453 59

Ellensburg to Wenatchee—Contract No. 268: Bids were opened in February, 1916, for grading and draining 10.0 miles of the Sunset Highway from Vantage Ferry westerly toward Ellensburg. The contract was awarded to Martin Holm of Ellensburg. A standard roadbed 20 feet in cuts and fills was constructed. On September 30, 1916, the contract was approximately 90 per cent completed.

In addition to Contract No. 268, $3\frac{1}{2}$ miles of road between the west end of Contract No. 268, and a point $13\frac{1}{2}$ miles west of Vantage Ferry was improved, under the day labor system, by straightening the alignment, reducing bad grades, widening the roadbed and surfacing. The sum of \$4,984.82 was expended on September 30, 1916, in doing this work.

STATEMENT.

Appropriation		\$29,475 00
Estimates, force account, etc		
Engineering (location and construction)	4,555 79	
Advertising, etc.		
Balance Sept. 30, 1916	6,400 04	
Total		.\$29,475 00

Wenatchee to Waterville: A location survey was made of the unimproved portion of this section of the Sunset Highway from Orondo to Waterville in 1915. On account of the ideal conditions for honor camp work, the construction of 5 miles of this section, beginning at Waterville and extending westerly, was undertaken with Honor Camp No. 5, which was established in Coberly Canyon. A force of 20 to 70 honor men have been employed between May, 1915, and July 1, 1916, when the honor men were released. The work performed by Honor Camp No. 5 was quite successful as evidenced by the cost of the work shown in the statement, under the heading "Day Labor."

After the abandonment of the Honor Camp on July 1, 1916, the work on the 5 mile section was completed by day labor forces. This work will be completed about October 15, 1916.

The remainder of the section between the Honor Camp work and Orondo was improved during the present biennium by the county from the Permanent Highway Fund, and County Road and Bridge Fund, and by the State day labor forces. Eleven miles of the section between Wenatchee and Orondo was resurfaced with gravel by S. G. Kinder of Bridgeport, under Contract No. 266. This was paid for from the Maintenance East Side Fund, and is covered more fully under that heading.

STATEMENT.		
Appropriation Estimates, force account, etc Engineering (location and construction) Right of way Balance Sept. 30, 1916	\$54,448 99 2,705 59 250 00	\$59,036 00
Total		\$59.036 00

Reardan West—Contract No. 230: Bids for grading and draining 14.5 miles of Sunset Highway between Rocklyn and Creston were opened in June, 1915, and the contract awarded to the Mohr Construction Company of Waterville, Washington. This contract is an extension of the 1914 improvement west of Davenport. A standard roadbed 30 feet in cuts and 24 feet in fills was constructed. This improvement was completed May 1, 1916. Final estimate, \$49,946.22. This portion of the Sunset Highway was surfaced with gravel by Lincoln County from the Permanent Highway Fund.

STATEMENT.

Appropriation		\$59,301 99
Estimates, force account, etc		
Engineering (location and construction)		
Right of way	280 00	
Advertising	40 75	
Total		\$59.301 99

SECONDARY HIGHWAYS.

STATE ROAD NO. 4—FERRY COUNTY.

		New Construction (Miles)			
SECTION	April 1, 1915	1915-1917	Total April 1, 1917		
Ferry county	12.6 11.0	27.0	39 .6 11.0		
Totals	23.6	27.0	50,6		

The sum of \$29,518.00 was appropriated for the improvement of State Road No. 4 in Ferry County. The work was done by the day labor system under the direction of the Highway Department. From Republic westerly to the Okanogan

County Line, approximately \$7,800 was spent on a revised location of the road approximately three miles in length. This consisted of fairly heavy construction. About \$200 was spent on the improvement of the remaining portion of this section.

From Republic to West Fork the located line of the Spokane and British Columbia Railway is largely in conflict with the location of State Road No. 4, and no attempt was made to do any permanent work where such conflict exists. About three miles of road in this section which did not conflict with the railway location was improved by straightening the alignment and reducing the grades. The remainder of the work was improved sufficiently to keep the road open to travel.

Between West Fork and Keller the greater portion of the work consisted of improving the existing road by straightening the alignment, reducing grade, providing necessary drainage and bridges and clearing of right of way.

Between Keller and the Columbia River approximately two miles of new road was constructed in order to eliminate bad grades, and alignment in the old road. The new location included some rather heavy work and a timber bridge consisting of one 60 foot span, one 38 foot span and one 36 foot span. The following is a statement of the sections improved, showing the expenditures on each section:

SECTION	Length (Miles)	Road Improved (Miles)	Expendi- ture
Republic westerly to Okanogan county line	15.6 84.8	8.2 7.4 12.2 4.2	\$8,000 00 6,200 00 6,318 00 9,000 00
Totals	62.9	27.0	\$29,518 00

Appropriation			\$29,518 00
Construction, etc	\$25.872	49	4,
Engineering (location and construction)	3.048		
Right of way	260	00	
Balance Sept. 30, 1916	336	63	•
Total			\$29,518 00

STATE ROAD NO. 5.

		New Construction (Miles)			
SECTION	April 1, 1915	1915-1917	Total April 1, 1917		
Lewis county	86.4 10.1	1.0	37.4 10.1		
Totals	46.5	1.0	47.5		

Nesika Bridge and Approaches: The balance remaining in the fund for the construction of the Nesika bridge and approaches on April 30, 1915, was reappropriated by the 1915 Legislature. The balance on April 30, 1915, was \$2,870.85. Practically the entire reappropriation has been expended in reconstructing the approaches to the bridge by day labor under the supervision of the County Engineer of Lewis County.

STATEMENT.	
Appropriation \$2,367 90 Balance Sept. 30, 1916 2 45	\$2,370 35
Total	\$2,370 35

STATE ROAD NO. 8.

	New Construction (Miles) Old Roads Suri			ds Surface	rfaced (Miles)	
SECTION	April 1,	1915-1917	Total April 1, 1917	April 1, 1915	1915-1917	Total April 1, 1917
Clarke county	16.5 10.1 1.75	4.8	16.5 14.4 1.75		1.0	1.6
Totals	28.85	4.8	82.65		1.6	1.6

The sum of \$67,311.99 was appropriated for surveys and construction between Butler and Cooks.

Stevenson West—Contract No. 236: One and six tenths miles of State Road No. 8, beginning at a point about 1 mile west of Stevenson and extending westerly, was graded by Honor Camps Nos. 3 and 4 in 1914.

On June 15, 1915, a camp was established and the surfacing of this section with crushed rock, and removal of slides, was un-

dertaken by day labor. Skamania county machinery was used to crush the rock. An 8 foot strip of crushed rock or about 2,870 cubic yards of material was placed. This work was completed on September 15, 1915. In addition to this work 2.5 miles of new construction, being a continuation of the 1914 work, was completed by clearing, grading and surfacing. For expenditure see financial statement.

Collins to Cooks—Contract No. 254: The work under this contract consisted of clearing, grading and draining about four miles of State Road No. 8 between Cooks and Collins in Skamania County. About three miles of this work was undertaken by S. Murchison under Force Account Contract for cost plus 10 per cent. This section of State Road No. 8 is the heaviest piece of construction in Skamania County. The steep rock cliffs with the Spokane, Portland & Seattle Railroad at the base made construction extremely difficult. The work was almost entirely in solid rock, some of the cuts being as much as 80 feet in height.

One mile of this section just east of Collins, consisting principally of earthwork, was opened up by day labor.

Approximately 50 per cent of the entire work between Collins and Cooks has been completed.

STATEMENT.

Appropriation			\$67,311 99
Estimates, force account, etc	\$62,149	48	
Engineering (location and construction)	2,252	66	
Right of way	700	00	
Balance Sept. 30, 1916	2,209	85	
Total		_	\$67,311 99

STATE ROAD NO. 10.

	New Construction (Miles) Old Roads Gravellee				d (Miles)	
SECTION	April 1, 1915	1915-1917	Total April 1, 1917	April 1, 1915	1915-1917	Total April 1, 1917
Chelan county	18.2 8.0	2.0 18.5	15.2 16.5			· ·
Totals	16.2	15.5	81.7			

The following appropriations were made by the 1915 Legislature:

Between Maple Creek in Chelan
County and Okanogan County line.. \$20,000 00
In Okanogan County.................. 29,704 18

Chelan County: Location surveys were made of 7.3 miles of State Road No. 10 between Chelan and the Okanogan County line and 4.0 miles of road between Chelan and Chelan Falls.

On June 23, 1916, the Highway Board by motion and resolution authorized the expenditure of the appropriation for work in Chelan County between Maple Creek and the Okanogan County line, on the section between the town of Chelan and the Okanogan County line by the day labor system, beginning the work approximately one mile north of Chelan.

This work will be started about October 1, 1916.

The equipment now being used on the Coberly Canyon work between Wenatchee and Waterville in Douglas County will be transferred to this work.

STATEMENT.

Appropriation	\$1,486 04	\$20,000 00
Total		\$20,000 00

Okanogan County—Contract No. 235: The appropriation for State Road No. 10 in Okanogan County was expended in improving some of the worst portions of the road which were badly in need of improvements, by the day labor system. Approximately 13.0 miles of road was constructed in this manner, the amount available being expended as follows:

Pateros South Shell Rock Point Tonasket North Oroville South	0.5 miles 3.75 miles	\$15,415 61 2,187 07 6,942 35 5,130 14
Totals		\$29 675 17

STATEMENT.			
Appropriation	\$28,896		\$29,704 18
Engineering (location and construction) Right of way		56 00	
Balance Sept. 30, 1916	14	84	
Total			\$29,704 18

STATE ROAD NO. 11.

	New Oo	nstruction	(Miles)
SECTION	April 1, 1915	1915-1917	Total April 1, 1917
Whateom county	. 15.75	2.0	2.0 15.75
Totals	. 15.75	2.0	17.75

There was appropriated by the 1915 Legislature the sum of \$5,000 for surveys and construction of State Road No. 11 in Whatcom and Skagit Counties. On April 23, 1915, the Highway Board authorized this work to be done by day labor under supervision of the county engineer. With the money available an 80 foot timber bridge was constructed across Diasbud Creek and several bad portions of road improved.

STATEMENT.

Appropriation \$4,875 05 Expended on construction \$4,875 05 Balance Sept. 30, 1916 124 95	\$5,000 00
Total	\$5,000 00

STATE ROAD NO. 12.

•	New Oo	nstruction	(Miles)
SECTION	April 1, 1915	1915-1917	Total April 1, 1917
Okanogan county	5.88	19.5	25.83
Totals	5.88	19.5	25.88

There was appropriated by the 1915 Legislature for surveys and construction of State Road No. 12 in Okanogan County the sum of \$29,571.19. This appropriation was expended by this

department by the day labor system. The work was started in June, 1915, and completed in October, 1915. In all approximately 19½ miles of road were improved with the money available, as follows:

Pateros North Methow North and South Twisp South Winthrop North	10.5 3.5	miles miles	\$9,389 93 10,892 45 8,001 33 1,635 26
Totals	19.5	miles	\$29.018 97

In addition to the above approximately \$118.71 was expended in miscellaneous force account work on State Road No. 12.

STATEMENT.

Appropriation			\$29,571 19
Construction			
Engineering (location and construction)	383	40	
Right of way	139	50	
Balance Sept. 30, 1916	433	51	
Total			\$29,571 19

STATE ROAD NO. 18.

		New Construction (Miles)			
SECTION	April 1, 1915	1015-1917	Total April 1. 1917		
Lewis county		5.0	5.0		
Totals		5.0	5.0		

There was appropriated for surveys and construction of State Road No. 18 in Lewis County the sum of \$20,000, with which 5 miles of road between Morton and Kosmos were constructed and surfaced with gravel by day labor forces. A standard roadbed 20 feet wide was constructed with no grades exceeding 6 per cent.

STATEMENT.

Appropriation	\$19,451 233	62 15	\$20,000 00
Total			\$20,000 00

15.5 19.0 84.5

15.5

	New Oo	nstruction	(Miles)
SECTION	April 1,	1915-1917	Total April 1,

STATE ROAD NO. 23.

There was appropriated by the 1915 Legislature for the survey and construction of State Road No. 25 the sum of \$104,016.00.

Pend Oreille county

Totals.

Contract No. 244: In July, 1915, bids were opened for clearing, grading and draining 35.5 miles of State Road No. 23 between Mead and Newport in Pend Oreille and Spokane Counties, and a contract was awarded to the General Construction Company. A standard roadbed 30 feet wide in cuts and 24 feet in fills was constructed. In this contract was included the construction of two reinforced concrete arch bridges of 70 and 75 foot spans respectively. The work was completed in April, 1916. Final estimate, \$91,327.32.

STATEMENT.		
Appropriation Estimates, force account, etc Engineering (location and construction). Right of way	\$91,489 3 10.855 5	9 8
Advertising, and miscellaneous	96 6	8
Total		- . \$104,016 00

MAINTENANCE.

The following appropriations were made by the 1915 Legislature for the maintenance of Primary Highways:

	-
West Side	\$99,760 00
East Side	45.597 00
State Highways (in addition to above)	50,000,00

"West Side" and "East Side," as designated above is intended to mean all territory west and east respectively of the Columbia River up to its junction with the line dividing Okanogan and Chelan counties, thence following the west line of Okanogan County to the international boundary line. The following is a statement of the above appropriations on September 30, 1916.

WEST SIDE MAINTENANCE	C.			
Appropriation		• • •	\$99,760	00
Expended Sept. 30, 1916:				
ALCOTOLINA L MADE VIVIVIVIVIVIVIVIVIVIVIVIVIVIVIVIVIVIVI	903			
	644			
	,185			
	,726			
Sunset	,976	20		
General 5	893	15		
Balance Sept. 30, 1916	430	87		
Total			\$99,760	00
EAST SIDE MAINTENANCE	١.			
Appropriation			\$45,597	00
Expended Sept. 30, 1916:			,,	
Inland Empire Highway	205	47		
Sunset Highway 9	062	16		
	139			
Balance Sept. 30, 1916				
Total	• • • •	• • • •	\$45,597	00
ADDITIONAL MAINTENANCE, CH	AP.	113.		
Appropriation Expended Sept. 30, 1916:	•••	•••	\$50,000	00
Olympic Highway\$33	333	12		
	586	42		
Central Washington Highway	165	2 5		
	326	85		
	114	17		
	64	40		
	409			
Total			\$50,000	00

For statement of re-appropriations, see "Financial Statement."

With the rapidly increasing mileage of finished roads the problem of proper maintenance is growing in importance. While the patrol system is generally employed yet on most of the Highways it has been necessary to employ large gangs of men to keep the roads open to traffic and in good condition.

On newly graded roads particularly the maintenance has been very heavy, due principally to the new and unsettled condition of the roads, and the great amount of traffic which passes over them. Of the newly constructed roads the Sunset Highway between North Bend and Easton has been the most difficult to maintain. During the past year particular attention has been given to drainage in this section, and the road should now be able to withstand the winter rains and snow with little damage. During the winter it has been necessary occasionally to re-

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Waterfront Road, Pacific Highway, Skagit County



195-foot Bridge Over Skokomish River, Olympic Highway, Mason County.



lieve the bridges near the summit, extending as far east as Easton, of the immense weight of snow which accumulates on them. On account of the backward spring this year, it was impossible to open this road before July 1st, 1916, and in order to open it by that time it required shoveling through large banks of snow. Since the Reclamation Service has cut all the timber along Lake Keechelus below the road this portion will hereafter get all the sun and be opened much earlier in the spring than in the timbered portions. The altitude and consequent deep snows will always delay the opening of the road until late spring.

The McClellan Pass Highway has been maintained in a splendid condition all summer, and besides maintaining the surface by applying gravel and dragging and keeping the ditches open, the bank of the White River between Slippery Creek and the Greenwater River has ben riprapped and otherwise protected, where there is a tendency for the high water to undermine the toe of the fill. A good connection has also been made between the work done by the State and the county road.

Owing to the nature of the soil and to the difficulty of properly draining the roadbed, this section of the National Park Highway between Mineral and Morton in Lewis County has been very difficult to maintain. Before this road can be put in proper shape it will require additional surfacing with gravel or crushed rock.

On the section of the Inland Empire Highway between Walla Walla and Waitsburg in Walla Walla County, 9 miles of the roadway which was surfaced under the Permanent Highway Acts, was scarified, adding new screenings with sufficient binder clay and then re-rolled.

Owing to the large amount of travel on this section of the Inland Empire Highway it will be impossible to maintain it as a gravel road, and this 18 miles between Waitsburg and Walla Walla should be hard-surfaced as soon as possible.

The other sections of Primary roads constructed by the State have been maintained in the usual manner by the patrol

system, each patrolman being provided with a split log drag or steel drag depending upon the character of the road material.

The following contracts were awarded for maintenance work:

Contract No. 255: This contract was awarded to W. G. Mulligan & Company, of Spokane, for surfacing 17.3 miles of the Inland Empire Highway between Rosalia and Colfax in Whitman County with gravel. The preliminary estimate for this work was \$21,120.00. The contract will be completed about October 5, 1916.

Contract No. 271: This contract, consisting of surfacing with gravel about 6.8 miles of the Inland Empire Highway from Spangle northerly, was awarded to J. E. Cunningham, of Spokane, Washington. The preliminary estimate for this work was \$7,344.00. Work under the contract will be completed about December 1, 1916.

Contract No. 266: This contract consisting of surfacing with gravel about 11.1 miles of the Sunset Highway between Wenatchee and Orondo, was awarded to S. G. Kinder of Bridgeport, Washington, the preliminary estimate for this work being \$7,568.60. This contract was completed in July, 1916.

DAY LABOR AND HONOR CAMP WORK.

Under the day labor system, the results obtained with respect to both cost and character of construction, other conditions being equal, is dependent entirely upon the ability of the superintendent who is in charge of the work. During the present biennium an excellent record has been made by the Department in the construction of roads under the day labor system. The following table gives the unit costs of the principal items of work in connection with the construction performed under the day labor, force account and honor camp systems. These costs as a whole are much less than contract prices on work of similar character, which means a considerable saving to the taxpayers of the state, and a corresponding increase in the mileage of roads constructed with the money available.

UNIT PRICES ON DAY LABOR AND HONOR CAMP WORK.

ITER	Unit	Day Labor Olympic Highway Shelton to Quilcane	bor ghway to	Day Labor National Park Highway Minera to Morton	-	Force Account Olympic Highway Shelton to Qullcene	count ghway to be	Day Labor State Road No. 18 Morton to Kosmos	bor oad orton	Honor Camp Sunset Highway Wenatchee to Waterville	amp ghway ee to
		Quantity	ont Odet	Quantity	Cost	Quantity	oott Oost	Quantity	Cost	Quantity	Unit Oost
mon e rock 1 rock		8, 200 8, 500 7, 6, 500 7, 6, 7, 500 7, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,	8:82 22:28:22	25.055, r. 6.05, r. 6	11.00 11.00 11.00 10.00 10.00	17.1 11.7 10.886 10.886	188.91 198.93 198.93 198.93	20.7 14.2 1,587 2,589	52.742 53.745 7.785 7.785	16.1 8.5 16,551 26,374 84,881	888 888 888
borrow seing hand placed first class	25555 25555	4.00 20 20 20 20 20 20 20 20 20 20 20 20 2	22.2	11,600	88		9	1,500	118	0.05 10.6	2.00 18.00
diameter. diameter. diameter	5444 5444	25 S	1.83							27. 27.	88
be culverts, 86" diameter	Lh. ft. Ou. B. M.	118.678								1,844	2 20 20 20 20 20 20 20 20 20 20 20 20 20 2
Overhaul Oribbing logs in place. Gravel surfacing	8#2 8#2	121,14	988	1,110	1.86	2,000	881	730	8	5,268	88

RIGHT OF WAY SECURED

FOR THE PERIOD BEGINNING OCTOBER 1st, 1914, AND ENDING OCTOBER 1st, 1916.

CENTRAL WASHINGTON HIGHWAY.

Ritzville-Sprague Section in Adams and Lincoln Counties: Right of way obtained from the SE½ of SE½ of Sec. 14, Twp. 19 N., R. 35 E. W. M., to Lot 6, Block 77, Third Addition to the city of Sprague, in Sec. 23, Twp. 21, N., R. 38 E. W. M., inclusive. Distance 23.75 miles.

INLAND EMPIRE HIGHWAY.

Richland-Kiona Section in Benton County: Right of way obtained from Lot 3, Sec. 19, Twp. 9 N., R. 27 E. W. M., to Lot 7, Sec. 5, Twp. 10 N., R. 28 E. W. M., inclusive, and from the SE $\frac{1}{4}$ of NW $\frac{1}{4}$ of Sec. 4, Twp. 10 N., R. 28 E. W. M., to the N $\frac{1}{2}$ of NW $\frac{1}{4}$ of Sec. 11, Twp. 9 N., R. 28 E. W. M., inclusive. Distance 12.15 miles.

Wallula-Touchet Section in Walla Walla County: Right of way obtained from W½ of NE¼ of SW¼ of Sec. 34, Twp. 7 N., R. 33 E. W. M., to the SW¼ of SW¼ of Sec. 32, Twp. 7 N., R. 33 E. W. M., inclusive, and from the NE¼ of SE¼ of Sec. 36, Twp. 7 N., R. 32 E. W. M., to the SE¼ of NE¼ of Sec. 30, Twp. 7 N., R. 32 E. W. M., inclusive, and from the NE¼ of NW¼, Sec. 30, Twp. 7 N., R. 32 E. W. M., to the SW¼ of NW¼, Sec. 26, Twp. 7 N., R. 31 E. W. M., inclusive. Distance 12.40 miles.

Waitsburg-Dayton Section in Walla Walla and Columbia Counties: Right of way obtained from the N½ of SW¼ of Sec. 12, Twp. 9 N., R. 37 E. W. M., to the S½ of SE¼ of Sec. 35, Twp. 10 N., R. 38 E. W. M., inclusive. Distance 7.00 miles.

Colfax South Section in Whitman County: Right of way obtained from N½ of SW¼ of Sec. 8, Twp. 15 N., R. 42 E.

W. M., to the SW¼ of SW¼ of Sec. 21, Twp. 16 N., R. 48 E. W. M., inclusive. Distance 8.75 miles.

Cashup-Steptoe Section in Whitman County: Right of way obtained from the SE1/4 of NW1/4 of Sec. 35, Twp. 18 N., R. 43 E. W. M., to the SE1/4 of NW1/4 of Sec. 15, Twp. 18 N., R. 43 E. W. M., inclusive. Distance 3.60 miles.

Colville South Section in Stevens County: Right of way obtained from the NW1/4 of Sec. 1/6, Twp. 35 N., R. 39 E. W. M., to the SW1/4 of NW1/4 of Sec. 3, Twp. 34 N., R. 39 E. W. M., inclusive. Distance 5.00 miles.

Pullman South Section in Whitman County: Right of way obtained from the E½ of NW¼ of Sec. 27, Twp. 14 N., R. 45 E. W. M., to the SE¼ of SE¼ of Sec. 27, Twp. 13 N., R. 45 E. W. M., inclusive. Distance 8.75 miles.

Rosalia-Oakesdale Section in Whitman County: Right of way obtained from the SW1/4 of SW1/4 of Sec. 23, Twp. 20 N., R. 43, E. W. M., to the NW1/4 of NE1/4 of Sec. 22, Twp. 19 N., R. 44 E. W. M., inclusive. Distance 8.90 miles.

McCLELLAN PASS HIGHWAY.

Greenwater River to Summit Section in Pierce County: Right of way obtained from Lot 7, Sec. 4, Twp. 19 N., R. 9 E. W. M., to the SW1/4 of SE1/4 of Sec. 14, Twp. 16 N., R. 10 F. W. M., inclusive. Distance about 27.00 miles.

NATIONAL PARK HIGHWAY.

Mashel Bridge Section in Pierce County: Right of way obtained from the NE¼ of NW¼ of Sec. 21, Twp. 16 N., R. 4 E. W. M., to SW¼ of NE¼ of Sec. 21, Twp. 16, N., R. 4 E. W. M., inclusive. Distance 1.0 mile.

Mineral-Morton Section in Lewis County: Right of way obtained from the SE½ of NW¼ of Sec. 9, Twp. 14 N., R. 5 E. W. M., to the SE¼ of SW¼ of Sec. 35, Twp. 13 N., R. 4 E. W. M., inclusive. Distance about 12.75 miles.

Nemah-Nasel River Section in Pacific County: Right of way obtained from the NE1/4 of SE1/4 of Sec. 27, Twp. 12 N., R. 10

W. W. M., to the NW¼ of SE¼ of Sec. 15, Twp. 11 N., R. 10 W. W. M., inclusive. Distance 7.00 miles.

Bear River West Section in Pacific County: Right of way obtained from the SE1/4 of SE1/4 of Sec. 24, Twp. 10 N., R. 11 W. W. M., to the NW1/4 of the NE1/4 of Sec. 28, Twp. 10 N., R. 11 W. W. M., inclusive. Distance 3.3 miles.

OLYMPIC HIGHWAY.

Mud Bay-McCleary Section in Thurston County: Right of way obtained from the NW1/4 of SW1/4 of Sec. 13, Twp. 18 N., R. 4 W. W. M., to the NE1/4 of NW1/4 of Sec. 13, Twp. 18 N., R. 3 W. W. M., inclusive. Distance 14.0 miles.

Hoodsport to Shelton Section in Mason County: Right of way obtained from the SW\frac{1}{4} of SW\frac{1}{4} of Sec. 12, Twp. 22 N., R. 4 W. W. M., to the NE\frac{1}{4} of SE\frac{1}{4} of Sec. 16, Twp. 21 N., R. 4 W. W. M., inclusive, and from the NW\frac{1}{4} of SW\frac{1}{4} of Sec. 22, Twp. 21 N., R. 4 W. W. M., to the NE\frac{1}{4} of SW\frac{1}{4} of Sec. 26, Twp. 21 N., R. 4 W. W. M., inclusive, and from the NW\frac{1}{4} of SW\frac{1}{4} of Sec. 25, Twp. 21 N., R. 4 W. W. M., to the NE\frac{1}{4} of SE\frac{1}{4} of Sec. 25, Twp. 21 N., R. 4 W. W. M., inclusive. Distance 11.00 miles.

Duckabush Northerly Section in Jefferson County: Right of way obtained from the SW1/4 of SW1/4 of Sec. 35, Twp. 26 N., R. 2 W. W. M., to the NW1/4 of NW1/4 of Sec. 24, Twp. 26 N., R. 2 W. W. M., inclusive, and across the SE1/4 of NE1/4 of Sec. 14, Twp. 26 N., R. 2 W. W. M. Distance about 3.80 miles.

Humptulips-Quinault Section in Grays Harbor County: Right of way obtained from the NE1/4 of SW1/4 of Sec. 8, Twp. 20 N., R. 10 W. W. M., to Lot 2 of Sec. 30, Twp. 23 N., R. 9 W. W. M., inclusive. Distance about 17.00 miles.

Quinault Northwest Section in Grays Harbor County: Right of way obtained from Lot 5, Sec. 30, Twp. 23 N., R. 9 W. W. M., to Lot 3, Sec. 16, Twp. 23 N., R. 10 W. W. M., inclusive. Distance 5.5 miles.

PACIFIC HIGHWAY.

Lacey-Nisqually Section Thurston and Pierce Counties: Right of way obtained from the NE1/4 of NW1/4 of Sec. 20, Twp. 18 N., R. 1 W. W. M., to the NE1/4 of NE1/4 of Sec. 4, Twp. 18 N., R. 1 E. W. M., inclusive. Distance 9.4 miles.

Orillia-Renton Section in King County: Right of way obtained from the NW1/4 of NE1/4 in Sec. 19, Twp. 23 N., R. 5 E. W. M., to the NW1/4 of NE1/4 of Sec. 31, Twp. 23 N., R. 5 E. W. M., inclusive. Distance 2 miles.

Toledo South Section in Lewis and Cowlitz Counties: Right of way obtained from Lot 8, Sec. 19, Twp. 11 N., R. 1 W. W. M., to the NW1/4 of SW1/4 of Sec. 10, Twp. 10 N., R. 2 W. W. M., inclusive. Distance 7.40 miles.

Kalama North Section in Cowlitz County: Right of way obtained from the SE¹/₄ of NE¹/₄ of Sec. 7, Twp. 6 N., R. 1 W. W. M., to the SE¹/₄ of SW¹/₄ of Sec. 31, Twp. 7 N., R. 1 W. W. M., inclusive. Distance about 2 miles.

Vancouver to LaCenter in Clarke County: Right of way obtained from the SW1/4 of SE1/4 of Sec. 26, Twp. 3 N., R. 1 E. W. M., to the NE1/4 of SE1/4 of Sec. 22, Twp. 4 N., R. 1 E. W. M., inclusive. Distance 8.00 miles.

SUNSET HIGHWAY.

Ellensburg-Vantage Section in Kittitas County: Right of way obtained from the SW1/4 of SE1/4 of Sec. 13, Twp. 17 N., R. 21 E. W. M., to SW1/4 of SW1/4 of Sec. 17, Twp. 17 N., R. 23 E. W. M., inclusive. Distance 16.90 miles.

Wenatchee-Waterville Section in Douglas County: Right of way obtained from Lot 14, Sec. 5, Twp. 24 N., R. 21 E. W. M., to the NE½ of SE½ of Sec. 28, Twp. 25 N., R. 21 E. W. M., inclusive, and from the NW¼ of SW¼ of Sec. 26 to the NW¼ of NE¼ of said Sec. 26, Twp. 25 N., R. 21 E. W. M., inclusive, and from the SE¼ of SE¼ of Sec. 23, Twp. 25 N., R. 21 E. W. M., to the NE¼ of the NW¼ of Sec. 28, Twp. 25 N., R. 22 E. W. M., inclusive. Distance 10.50 miles.

Cle Elum-Easton Section in Kittitas County: Right of way obtained across the SE¼ of NW¼ of Sec. 27, Twp. 20 N., R. 15 E. W. M., and from the N½ of NW¼ of SW¼ of Sec. 27, Twp. 20 N., R. 15 E. W. M. to the SW¼ of SE¼ of Sec. 30, Twp. 20 N., R. 15 E. W. M., inclusive, and from the NW¼ of NE¼ of Sec. 31, Twp. 20 N., R. 15 E. W. M., to the SW¼ of SW¼ of Sec. 12, Twp. 20 N., R. 13 E. W. M., inclusive. Distance 12.20 miles.

Davenport West Section in Lincoln County: Right of way obtained from the NE½ of NE½ of Sec. 29, Twp. 25 N., R. 36 E. W. M., to the SW¼ of NW¼ of Sec. 3, Twp. 25 N., R. 35 E. W. M., inclusive; and from the SW¼ of NW¼ of Sec. 4, Twp. 25 N., R. 35 E. W. M., to the NE¼ of SW¼ of Sec. 14, Twp. 26 N., R. 34 E. W. M., inclusive; also from the NE¼ of NE¼ of Sec. 15, Twp. 26 N., R. 34 E. W. M., to the SW¼ of SE¼ of Sec. 10, Twp. 26 N., R. 34 E. W. M., inclusive. Distance 13.60 miles.

North Bend to Cle Elum: Right of way obtained from the NW½ of SE½ of Sec. 14, Twp. 23, N., R. 8 E. W. M., to SW¼ of NW¼ of SW¼ of Sec. 13, Twp. 23 N., R. 8 E. W. M., inclusive; from the SW¼ of SW¼ of Sec. 13, Twp. 23 N., R. 8 E. W. M., to SE¼ of SE¼ of SW¼ of Sec. 13, Twp. 23 N., R. 8 E. W. M., inclusive; across the NW¼ of NE¼ and the NE¼ of NE¼ of Sec. 24, Twp. 23 N., R. 8 E. W. M., inclusive. Distance 1.30 miles.

STATE ROAD NO. 4.

Ferry County: Right of way obtained from the SW1/4 of NE1/4 of Sec. 3, Twp. 36 N., R. 32 E. W. M., to the SW1/4 of NW1/4 of Sec. 31, Twp. 37 N., R. 32 E. W. M., inclusive. Distance 2.75 miles.

STATE ROAD NO. 8.

Cooks to Collins Section in Skamania County: Right of way obtained from Lot 2, Sec. 34, Twp. 3 N., R. 9 E. W. M., to SE1/4 of SE1/4 of Sec. 36, Twp. 3 N., R. 9 E. W. M., inclusive. Dis-Distance 3.80 miles.



Type of Guard Rail Used on Sunset Highway, King County.



Switchback on Sunset Highway, near Snoqualmie Pass.



STATE ROAD NO. 10.

Okanogan County: Right of way obtained across Lot 1, Sec. 19, Twp. 29 N., R. 24 E. W. M.; also from the NE½ of NW¼ of Sec. 19, Twp. 29 N., R. 24 E. W. M., to the NE¼ of SW¼ of Sec. 18, Twp. 29 N., R. 24 E. W. M., inclusive. Distance 1.00 mile.

STATE ROAD NO. 18.

Lewis County: Right of way obtained from the SW1/4 of SE1/4 of Sec. 7, Twp. 12 N., R. 5 E. W. M., to NW1/4 of NW1/4 of Sec. 17, Twp. 12 N., R. 5 E. W. M., inclusive; also from NE1/4 of SW1/4 of Sec. 17, Twp. 12 N., R. 5 E. W. M., to SW1/4 of NE1/4 of Sec. 28, Twp. 12 N., R. 5 E. W. M., inclusive. Distance 3.90 miles.

STATE ROAD NO. 19.

Pacific County: Right of way obtained from SW1/4 of NE1/4 of Sec. 31, Twp. 11 N., R. 9 W. W. M., to NE1/4 of SW1/4 of Sec. 4, Twp. 10 N., R. 10 W. W. M., inclusive. Distance 0.80 miles.

STATE ROAD NO. 23.

Right of way obtained from the SE½ of SW¼ of Sec. 27, Twp. 31 N., R. 45 E. W. M., to S½ of NE¼ of Section 10, Twp. 30 N., R. 44 E. W. M., inclusive; from N½ of SW¼ of Sec. 10, Twp. 30 N., R. 44 E. W. M., to NE¼ of SW¼ of Sec. 26, Twp. 30 N., R. 43 E. W. M., inclusive; from NW¼ of Sec. 35, Twp. 30 N., R. 43 E. W. M., to SW¼ of SW¼ of Sec. 14, Twp. 28 N., R. 43 E. W. M., inclusive; from N½ of SE¼ of Sec. 27, Twp. 28 N., R. 43 E. W. M., to W½ of SE¼ of Sec. 3, Twp. 27 N., R. 43 E. W. M., inclusive; across the W½ of SE¼ of Sec. 10, Twp. 27 N., R. 43 E. W. M.; also from the NW¼ of SE¼ of Sec. 15, Twp. 27 N., R. 43 E. W. M., to S½ of SE¼ of Sec. 3, Twp. 26 N., R. 43 E. W. M., inclusive. Distance 32.00 miles.

The right of way for the state highways was all secured without cost to the state except where property was actually damaged and claims allowed as follows:

Central Washington Highway Adams and Lincoln counties Inland Empire Highway Benton County Stevens County Walla Walla County Whitman County	\$600 00 13 25 350 00 1,542 65 1,334 56
National Park Highway Pacific County	90 80 1,244 91 630 20
Olympic Highway Thurston County	2,025 04 104 65 1,198 04
Pacific Highway Cowlitz County Thurston County	380 40 2,428 6 3
Sunset Highway Kittitas County King County Douglas County Lincoln County	507 90 619 59 250 00 280 00
State Road No. 4 Ferry County	260 00
State Road No. 8 Skamania County	700 00
State Road No. 10 Okanogan County	70 00
State Road No. 12 Okanogan County	139 50
State Road No. 23Spokane and Pend Oreille counties.	1,574 35
Total	\$16,344 47

Where condemnation cases were instituted the costs of conducting are included in the amounts shown above.

In securing rights of way for the state highways, right at the outset this department adopted the policy of instituting condemnation suits to obtain right of way from property owners, who in our opinion asked exorbitant sums—sums that were far in excess of the actual value of the land and the damages, if any, and disregarded the benefits accruing to the property by reason of the construction of a state highway. This policy has redounded not only to the benefit of the state in reducing the cost of its highways, but has conferred a similar benefit on nearly every county in the state in securing rights of way for its own county roads, independent of the State Highway Department. In the past, the counties with few exceptions, having no special right of way agents of their own, and being compelled to turn that feature of the work to their county engineers or county commissioners, have been compelled to pay big sums for rights of way for their county roads, rights of way that really should have been cheerfully donated, as the construction of the road was a decided improvement in the district and a greater

benefit to the property owner than the value of the strip of land taken. And because these large sums were allowed by the counties for rights of way, bad precedents were established and it came to be a general practice for the property owner to demand an exorbitant sum for the land desired as right of way from the state as well as from the counties. Our policy, in the securing of right of wav desired has been to pay the difference between the actual market value of the land taken plus the damages, if any, and the benefits that would accrue to the adjoining property by reason of the construction of a state highway. We have been willing at all times to pay every property owner the actual amount of damages he sustained, but whenever we thought the amount demanded was exorbitant and unreasonable, we have immediately started condemnation proceedings. It is interesting to note that in every instance where a condemnation suit has been tried, the verdict awarded by the jury was far less than the amount asked for the property originally, confirming the contention of the department that the sum first asked was exorbi-The result is that we are overcoming the bad precedent established in previous years, and, while acquiring rights of way for the state at amounts covering the actual damage to the property owner, we are making it possible for the counties of the state to make similar reductions in the cost of rights of way for their county roads.

In connection with this matter we desire to extend our sincere thanks to the officials of all the counties of the state for the courteous treatment, co-operation and generous assistance to this department in the securing of rights of way for state highways. Without such assistance and co-operation it would have been utterly impossible to have accomplished these results.

TABLE SHOWING AMOUNTS OF APPROPRIATIONS, AMOUNTS EXPENDED, AND AMOUNTS REVERTING ON STATE ROADS AND BRIDGES FROM APRIL 1, 1905, TO SEPT. 30, 1916.

	Total Original Appropria- tions Apr. 1, 1906, to Mar. 21,	Total Revert Not Beappro- pristed Mar. 21,	Expended by State April 1, 1905, to Mar. 31,	Appropria- tion 1918	Expended Apr. 1, 1915	Balance Beverting	Appropria- tion 1915	Expended to Sept. 30, 1916	Total Original Appropria- tion	Total Expended by State Apr. 1, 1906, to Sept. 30,
Central Washington India Empire McCellan Park McCellan	#125,968 84, #11,078 05 #112,880 79 147,500 00 147,500 00 15,000 00 17,000 00 17,000 01 146,986 25 186,468 54 189,002 08 18454,468 54 189,002 08	#128, 988 84, #11,078 06 #112,880 79 25,000 00 147,500 00 5,800 20, 141,539 50 167,000 00 6,008 77 24,596 29 167,000 00 7,000 61 146,196 29 8464,468 84 \$800,002 68 \$454,416 21	#112,880 73, 25,080 90, 141,889 82, 149,896 82, 149,896 83, 146,896 83, 146,846 83,	\$25,000 00 15,00	\$559,007 00 \$827,597 68 \$11,000 82 14,507 14	4,1882 78 4,1882 78 4,1882 78 1,189 78 8,119 29 1,19 27 1,20 27 1,20 27 27 27 27 27 27 27 27 27 27 27 27 27 2	4, 682 75 147, 500 75 113, 500	#88, 901 88 218, 976 11 111, 889 74 171, 601 90 177, 601 90 869, 188 18 89, 289 18 46, 407 47 47, 400, 689 88	## 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	\$66,901 88 556,571 08 870,571 08 529,069 10 529,088 85 567,788 21 98,227 81 19,367 13 121,464 13 46,407 47
SECONDARY HIGHWAY8— Brate Road No. 4 Brate Road No. 8 Brate Road No. 11 Brate Road No. 11 Brate Road No. 12 Brate Road No. 12 Brate Road No. 12 Brate Road No. 12 Brate Road No. 14 Brate Road No. 14	25.25 25 25 25 25 25 25 25 25 25 25 25 25 2	66,492 10 6,836 86 6,836 86 11,890 82 8,440 91 131 10 141 10 141 10 141 10	20,007 90 106,880 42 84,006 42 84,179 76 14,188 97 14,189 97 14,189 97 14,189 97 14,189 97 14,189 97 14,189 97 14,189 97 14,189 97 14,189 97	25, 200 26, 20	24, 28, 28, 28, 28, 28, 28, 28, 28, 28, 28	25 25 25 25 25 25 25 25 25 25 25 25 25 2	\$2,870 85. 9,870 85. 67,811 99. 6,000 00. 5,000 00. 5,000 00.	\$29,181.87 2,867.90 66,102.14 81,877.88 4,875.08	960,014 128,004 88 128,004 88 118,000 87 11,000 97 88,000 97 89,000 97 80,000 97	\$70,121 27 116,696 55 218,070 57 218,070 57 21,086 51 14,086 73 448 58

State Road No. 18.	19,064 77 104,016 00 65,434 02 16,000 00 9,961 42	11 394, 188	885,146 87 86,969 29 86,730 51 89,664 69 80,241 50	\$318,479 36 ,589,797 85
Boad No. 18.		1 1		\$318, \$4,580,
Boad No. 18. Boad No. 18. Boad No. 28. Boad No. 29. Boad No. 20. Boad No. 29. Bo	20,000 10,000 10,000 10,000 10,000 10,000	096,094 78	28,500 20,000 20	402,246 41 817,175 8
Boad No. 18. Boad No. 28. Bo		265 08 FT.	200 : 200 200 200 200 200 200 200 200 20	245 B8 86,
Boad No. 18. Boad No. 28. Boad No. 29. Boad No. 29. Boad No. 29. Boad No. 29. Boad No. 29. Boad No. 29. Boad No. 29. Boad State roads a state roads a secondary roads. Boad State roads a secondary roads. Boad State roads a state roads a secondary roads. Boad State roads a secondary roads. Boad State roads a secondary roads. Boad State roads a secondary roads. Boad State roads a secondary roads. Boad State roads a secondary roads. Boad State roads a secondary roads. Boad State roads a secondary roads. Boad State roads a secondary roads. Boad State roads a secondary roads. Boad State roads a secondary roads. Boad State roads a secondary roads. Boad State road a secondary roads. Boad State road a secondary roads. Boad State road a secondary roads. Boad State road a secondary roads. Boad State road a secondary roads. Boad State road a secondary roads. Boad State road a secondary roads. Boad State road a secondary roads. Boad State roads a secondary roads. Boad State ro	1019	28	- ·	25 E
Boad No. 18. Label Rosal No. 28. Label Rosal No. 28. Label Rosal No. 28. Label Rosal No. 28. Label Rosal No. 28. Label Rosal R	20,000 o 104,016 o 1,722 g	-		# 348,704 B
Boad No. 18. De Boad No. 28. De Boad No. 28. De Boad No. 28. De Boad No. 28. De Boad No. 28. De Boad No. 28. De Boad No. 28. De Boad No. 28. De Boad No. 28. De Boad State roads. De Boad State roads. De Boad State bridge. De Boak State Boak S		\$15,085 71	600 000 000 000 000 000 000 000 000 000	\$1,301 88 \$167,868 60
Boad No. 18. Definition of state roads Definited Secondary roads Definition of state roads Definit	12,980 00	1 1	988,477 60 10,198 45 25,488 75	\$104,149 79 \$1,715,825 27
Boad No. 12. Page Boad No. 23. Page Boad No. 25. Page Boad No. 25. Page Boad No. 25. Page Boad No. 25. Read Rate roads 16,000 00 Respective Boar 10,0	12,990 00	\$160,911 00	80,000 00 68,830 00 10,189 15 26,512 46	\$135,541 61 11,883,683 87
to Ecad No. 13 to Ecad No. 28 to Ecad No. 28 to Ecad No. 28 to Ecad No. 28 to Ecad No. 28 to Ecad No. 28 to Ecad No. 28 to Ecad No. 28 to Ecad No. 28 to Ecad No. 28 to Ecad No. 28 to Ecad No. 28 to Ecad No. 28 to Ecad No. 28 to Ecad No. 29 to Ecad No. 29 to Ecad No. 29 to Ecad No. 29 to Ecad No. 29 to Ecad No. 29 to Ecad No. 29 to Ecad No. 29 to Ecad No. 29 to Ecad No. 29 to Ecad No. 29 to Ecad No. 20 to Ecad	50,000 50,000 50,000 50,000	\$148,822 40	48, 187 85 48, 187 54	\$02,988 39 \$006,727 00
to Ecad No. 18 to Ecad No. 28 to Ecad No. 28 to Ecad at a tre trada Included state roads Include secondary roads Total secondary roads (BES— G	4 8 5 8	3		2 2
te Boad No. 18. to Eoad No. 28. Indoned state roads ntenance secondary roads. Total secondary roads. GES— Secondary roads. GES— Secondary roads. GES— GES— Secondary roads. Total secondary roads. Secondary roads. GES— GES— GES— Total state road and bridge.	16.1		100 100 100 100 100 100 100 100 100 100	\$87,011 \$175,415
	66,946 18 16,11 16,000 00 10,000 00	\$666,678 91	81 013 00 000 000 10 000 000 000	\$120,000 00 \$87,011 \$171,142 75 \$175,415

* \$4,064.59 transferred to Mashel bridge, and \$241.50 transferred to Mayfield bridge.

STATUS OF STATE HIGHWAY CONTRACTS, 1915-1916.

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Cont. No.	SECTION OF HIGHWAY	COUNTY	Miles	KIND OF IMPROVEMENT
263	CENTRAL WASH, HIGHWAY— Ritzville to Sprague	Adams and Lincoln.	23.75	Grading and one 20-ft. arch bridge.
234	Ellensburg to North Yakima	Yakima and	1.8	Grading
260 261	Kiona to Richland	Kittitas. Benton	11.6 9.55	Grading and bridges Grading and bridges
256	Walla Walla northeasterly	Walla Walla and Columbia	6.77	
225 227 246 250 255 270 271 277	Oolfax south Oolfax north (Steptoe-Cashup) Oolville south Union Flat Creek south Colfax to Rosalia Colville south Spangle north Arden bridge	Whitman Whitman Stevens Whitman Whitman Stevens Spokane	5.5 4.0 5.0 3.2 17.8 4.6 6.8	Grading and 40-ft. conc. arch Grading Grading Grading Surfacing (gravel) Surfacing (gravel) Surfacing (gravel) One reinf. concrete bridge
	SECOND DIVISION—			
262 259	Rosalia to Oakesdale		8.9 8.7	Grading Grading
216 265 249	Greenwater river east. Greenwater to Summit. Naches to Summit.	Pierce	8.5	Surfacing (gravel) Grading
248 226 215 214 a 258 287 252 274 204 251	Mashel bridge	Pierce. Pierce. Lewis. Lewis. Lewis. Pacific Pacific Pacific Pacific.	1.5 5.0 6.0 10.0 7.0 3.3 1.8 4.2	One 80-ft. concrete arch Grading Surfacing (gravel) Grading Gravel 468-ft. cantilever bridge Grading Grading Grading Grading Surfacing (crushed rock) Grading and surfacing
	OLYMPIC HIGHWAY-			
245 212	Mud Bay to McCleary	Thurston Mason and	7.75 11.9	Grading Grading and surfacing
248 220 258 221	Skokomish river bridge East Beach to Pledmont Lake Quiniault northwesterly Shelton to Quilcene (b)	Jefferson. Mason Clallam Grays Harbor Jefferson	3.0 10.5 2.5	195-ft. riveted Petit truss Grading Clearing and grubbing Grading and graveling

STATUS OF STATE HIGHWAY CONTRACTS, 1915-1916—Continued.

Cont. No.	CONTRACTOR	Final Estimate	Date of Contract	Date for Completion	Date Completed
268	CENTRAL WASH. HIGHWAY— Mitchell Bros., Spokane	\$40,559 82	Jan. 27, 1916	July 1, 1916	Sept. 1, 1916
	INLAND EMPIRE HIGHWAY-				
234	Quigg Const. Co	4,417 90	June 18, 1915	Sept. 1, 1915	Aug. 27, 1915
260 261 256	H. L. Wilson Co	27,880 92	Dec. 28, 1915 Dec. 28, 1915 Oct. 18, 1915	June 15, 1916 June 15, 1916 Apr. 1, 1916	Aug. 26, 1916 Sept. 2, 1916 June 1, 1916
225 227 246 250 255 270 271 277	H. L. Wilson Co. General Const. Co. E. D. Miner, Colville, Wash H. C. Root, Spokane, Wash W. G. Mulligan Co., Spokane. H. C. Root, Spokane. J. E. Cunningham. Acorn & Son.	18,261 49 11,798 19 11,835 40 14,890 54 8,208 87	June 2, 1915 Aug. 10, 1915 Sept. 8, 1915 Oct. 18, 1915 May 27, 1916	Oct. 1, 1915 Sept. 1, 1915 Dec. 1, 1915 Dec. 1, 1915 Mar. 1, 1916 Sept. 1, 1916 Dec. 1, 1916 Nov. 15, 1916	Dec. 27, 1915 Aug. 11, 1915 Apr. 29, 1916 Dec. 7, 1915 Oct. 8, 1916 July 24, 1916 Oct. 9, 1916
	SECOND DIVISION-				
202 259	General Const. Co	22,014 68 28,509 25	Dec. 27, 1915 Dec. 27, 1915	June 15, 1916 June 15, 1916	
	McOLELLAN PASS HIGHWAY-				
216 265	State Force (Ausfahl)	26,000 00	Mar. 31, 1915 Jan. 24, 1916	Aug. 1, 1915 Oct. 1, 1916	
249	Rajotte, Fobert & Winters	47,115 18	Aug. 17, 1915	Jan. 1, 1916	June 29, 1916
243 226 215 214 a 258 257 250 274 204 251	NATIONAL PARK HIGHWAY— H. C. Malott, Seattle Kendle & Eppler, Estonville State Force (Thompson) State Force (Mills) Torger Peterson, Estonville N. H. Beer, Portland Burnett Const. Co M. P. Zindorf, Seattle Raymond Const. Co K. L. Goulter, Seaview State Force (Jorgensen)	22,967 25 8,646 63 42,690 00 19,761 30 29,006 50	Apr. 6, 1915 Mar. 81, 1915 Sept. 2, 1915 June 22, 1915 Sept. 9, 1915 Aug. 15, 1916 July 23, 1914 Sept. 8, 1915	Nov. 1, 1915 Oct. 1, 1915 Oct. 7, 1915 Oct. 7, 1915 Sept. 10, 1915 Jan. 1, 1916 Dec. 1, 1916 Apr. 20, 1917 Nov. 1, 1914 Oct. 15, 1915	May 25, 1916 May 31, 1916 Sept. 1, 1916 Oct. 7, 1915 Nov. 20, 1918 Jan. 17, 1916 July 29, 1915 Jan. 3, 1916 July 29, 1916
	OLYMPIC HIGHWAY-				
245 212	Rignell & Bankston David Govan, Sup't	34,301 55 56,698 27	July 27, 1915 Mar. 29, 1915	Jan. 1, 1916	Feb. 1, 1916 Dec. 11, 1915
248 220 258 221	Yelverton & Wolf	1	June 1. 1915	1	Aug. 21, 1915

STATUS OF STATE HIGHWAY CONTRACTS, 1915-1916—Continued.

No.	SECTION OF HIGHWAY	COUNTY	Miles	KIND OF IMPROVEMENT
	PACIFIC HIGHWAY-			
228	Blaine to Custer	Whatcom	3.0	Graveling
247	Custer to Enterprise	Whatcom	2.75	Grading
217	Waterfront road	Whatcom (11.00	Grading and bridging
	Wild Cat cove	and Skagit (
278	Orillia to Renton	King		Grading
228	Lacey to Nisqually	Thurston	8.0	Grading
218 281	Lacey to Nisqually	Pierce		Grading
201	Toledo south	Lewis and Cowlitz.	6.0	Grading
269	Toledo south	Lewis and	7.7	Surfacing (gravel)
222	Carrollton north	Cowlitz.	2.0	Shartesing (mosk)
222 229	Kalama north	Cowlitz	1.53	Surfacing (rock) Grading
	Kalama north	Cowlitz		Surfacing (crushed rock)
224	Kalama south	Cowlitz	3.3	Surfacing (crushed rock)
282	Woodland to LaCenter	Clarke	2.0	Surfacing (crushed rock)
241	LaCenter north	Clarke	1.0	Grading and surfacing
				(crushed rock).
288	Vancouver to LaCenter	Clarke	7.5	Grading
242	Marysville south	Snohomish		Grading and surfacing
257	Nisqually east	Pierce	2.30	Grad'g and surfac'g (grave
••••	Lacey to Nisqually	Thurston and Pierce.		Surfacing (gravel)
272	Vancouver north	Olarke	2.0	Surfacing (gravel)
	SUNSET HIGHWAY-		i	
218	North Bend to Easton	King and Kittitas.	21.9	Surfacing (gravel)
211	North Bend to Easton	King and	7.0	Surfacing (gravel)
266	Wenatchee to Orondo	Kittitas. Douglas	11.1	Surfacing (gravel)
268	Ellensburg to Wenatchee	Kittitas	10.0	Grading (graver)
280	Rocklyn to Creston	Kittitas Lincoln	14.5	Grading
240	Near Waterville	Douglas		Maintenance
219	Ooberly Canyon	Douglas	5.0	Grading
64	Easton to Cle Elum	Kittitas	13.5	Grading
267	Easton to Cle Elum	Kittitas	•••••	Bridges—2 100', 2 65', 1 50', 1 80' arches.
••••	Ellensburg to Vantage	Kittitas	8.5	Grading
	STATE BOADS—			
289	No. 4	Perry	27.0	Grading
	No. 5 (Nesika bridge)	Lewis	1.0	Grading and surfacing
254	No. 8, Collins to Cook	Skamania	2.0	Grading
286	No. 8. Stevenson west	Skamania	2.3	Grading
	No. 10	Ohelan	2.0	Grading and gravel
285 a	No. 10			Grading
288	No. 11	Skagit	2.0	Grading and 1 80' Howe to
285 b	No. 12	Okanogan	19.5	Grading
214 b	No. 18, Morton to Kosmos	Lewis	5.0	Grading
244	No. 23. Mead to Newport	Spokane and	34.5	Grading and 1 70', 1 80' eo

STATUS OF STATE HIGHWAY CONTRACTS, 1915-1916—Continued.

Cont. No.	CONTRACTOR	Final Estimate	Date of Contract	Date for Completion	Date Completed
	PAOIFIC HIGHWAY-				
228 247 217	Worthen & Satterthwaite Chas. E. Lind State Force (Murchison)	\$6,445 70 12,169 94 104,881 88	May 6, 1915 July 26, 1915 May 3, 1915	Aug. 1, 1915 Dec. 1, 1915	Sept. 30, 1918 Feb. 15, 1918 Oct. 81, 1918
278 229 218 231	M. P. Zindorf, Seattle	3,561 75	Aug. 10, 1916 June 8, 1915 May 10, 1915 June 9, 1915	Nov. 15, 1916 Oct. 1, 1915 Oct. 15, 1915	Nov. 6, 1911 June 18, 1911 Oct. 20, 1911
269	Jarvis 🌢 Burkheimer, Inc		Mar. 28, 1916	Sept. 1, 1916	
222 229 224 282 241	Montague & O'Reilly Co	8,066 47 5,749 74 12,584 07 8,778 88	May 6, 1915 June 9, 1915 Aug. 12, 1915 May 6, 1915 June 14, 1915 July 19, 1915	July 1, 1915 Aug. 15, 1915 Sept. 1, 1915 Sept. 1, 1915 Oct. 2, 1915	July 1, 1915 Aug. 12, 1915 Sept. 16, 1915 Aug. 13, 1915 July 14, 1915 Oct. 2, 1915
288 242 257	General Constr. Co	16,187 84 7,420 18	June 19, 1915 July 26, 1915 Nov. 9, 1915 Sept. 7, 1915	Nov. 1, 1915 Nov. 9, 1915	Sept.16, 1915 Nov. 9, 1915 Apr. 9, 1916 Nov. 15, 1915
272	L. F. Kline	4,266 86	July 81, 1916	Sept.15, 1916	Sépt.30, 1916
	SUNSET HIGHWAY—	'			
21.8	State Force (Jordan)	l l	Mar. 80, 1915		
211	State Force (Jorgensen)	14 1	Dec. 14, 1914	July 29, 1915	July 29, 1916
266 268 280 240 219 264 267	S. G. Kinder, Bridgeport. Martin Holm, Ellensburg. Mohr Const. Co. State Force (Foster). Honor Camp (Bowen). General Const. Co. Security Bridge Co. State Force (Jordan).	49,946 22 820 10 55,484 42	June 10, 1915 Apr. 20, 1915 May 12, 1915 Jan. 27, 1916 Jan. 31, 1916	July 1, 1916 Oct. 1, 1916	July 1, 1915
	STATE ROADS—				
289 254 295 285 a 288 285 b 214 b 244	State Force (Richardson)	2,867 90 41,071 87 21,047 04 28,728 17 4,875 06 28,618 78 19,685 00	Oct. 16, 1915	Oct. 1, 1915 Jan. 1, 1916	Sept.14, 1915 Sept.30, 1915 Aug. 18, 1916 Sept.30, 1915 Sept.18, 1915

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CONTRACT UNIT PRICES ON STATE ROADS, APRIL, 1915, TO SEPTEMBER, 1916

Con- tract No.	нюнмах	COUNTY	KIND OF IMPROVEMENT	CONTRACTOR
223 223 233 233 233	Pacific—Lacey to Nisqually Pacific—Carrollton north	Pierce. Cowlitz	Grading. Surfacing	Northern Pacific Ry. Co. Montague & O'Relly Co.
ត្តសំន	Facinc—Balante to Custer Pacinc—Balante to Custer Inland Empire—Colfax south.	Whatcom. Oowlitz. Whitman.	Surfacing. Surfacing and 40-ft, concrete arch	Wortnen & Sattertnwaite Porter & Conley H. L. Wilson Co.
និងនិ	National Park—Approaches to Mashel Dridge Inland Empire—Colfax north Pacific—Lacey to Nisqually.	Whitman Thurston	Grading Grading	Kendle & Eppier General Construction Oc. L. H. Goerig
វិនិនី	Facing—Namama north Sunaet—Rocklyn to Creston Pacific—Toledo south	Lincoln. Lewis and Cowlitz	Grading. Grading.	Hendricks & Ward Mohr Construction Co. Andrew & Harrer
8888	Pacific—Woodland to LaCenter Pacific—Vancouver to LaCenter	Clarke	Surfacing	Porter & Conley General Construction Co.
243	National Park—Mayfied bridge. National Park—Mashel bridge. State Road No. 23—Mead to Newport.	Lewis Pierce Spokane and	Cantilever steel bridge Reinforced concrete arch Grading and concrete bridges	W. H. Beer H. C. Malott General Construction Co.
245 246 247	Olympic—Mud Bay to McCleary. Inland Empire—Colville south. Pacific—Custer to Enterprise.	Thurston Stevens.	Grading Grading Grading	Rignell & Bankston E. D. Miner Ohas. E. Lind
# 2 2 2	Oympie—Skokomish River bridge McClellan Pass—Naches to Summit Inland Empire—Union Flat creek south	Mason. Yakima. Whitman.	Riveted Petit truss. Grading Grading	Yelverton & Wolf Rajotte, Fobert & Winters H. O. Root
33333	National Park—Frances to Ashlock. National Park—Mana to Nasel river. National Park—Mineral to east fork Tilton river. Taland Empire—Oldex to Resulta.	Pacific. Pacific. Lewis. Whitmen	Surracing Grading Surracing Surracing	K. L. Goulter Burnett Construction Co. Torger Peterson W. G. Muligan Co.
88888	Interior Engine—Watta Watta Dottheasterry Second Division—Would to Michigand Inland Empire—Wallus to Toucher Second Division—Results to Oaksedale Central Washington—Rizzille to Sprague	Volumbia. Whitman Benton. Walla Walla Whitman Adama and Lincoln	Orading Orading and bridges Grading and bridges Grading and do for conveys areh	ceneral Construction Co. G. I. Stickler H. I. Wilson Co. H. I. Wilson Co. Michell Brothers

CONTRACT UNIT PRICES ON STATE BOADS, APRIL, 1916, TO SEPTEMBER, 1916-Continued.

No.	ніднмат	OOUNTY	KIND OF IMPROVEMENT	CONTRACTOR
Sun Sun Sun Sun Sun Pac This	unset—Ole Elum to Easton fo Clellan Pass—Greenwater river east tunset—Waratche to Orondo unset—Clematour to Wenatchee haefite—Tode outh ham Empire—Colville south. hand Empire—Colville south. hand Empire—Spangle north. hand Empire—Arden hard	Kittitas Perce Douglas Nittitas Kittitas	Company Comp	General Construction Co. Sloade Bros. S. G. Kinder Security Bridge Co. Martin Holm J. arvis & Burkhelmer H. O. Root J. E. Cunningham M. P. Zindorf Acorn & Son

, 1916—Continued.
1916, TO SEPTEMBER
PRIL,
STATE ROADS.
PRICES ON 8
ONTRACT UNIT PRICES ON STATE BOADS, A

	Side Surfacing	i.	: : : : : : : : : : : : : : : : : : :
Slope Walls Ooncrete, Ist Class Structural Steel Shapes in Place Expended Metal in Place Trace Trace Guard Rail in Place Ouard Rail in Place Pole Rail in Place Trimber and Poles Stringers in Colors in Place Oulvert Logs in Place Trace, Inclinding Stringers Onlyert Logs in Place Outlond Stringers Stringers Stringers Stringers Onlyert Logs in Place Stringers Stringers Outlond Macony		. ŠĘ	88 88 88
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EXOAVATION Including Haul of 400 feet	Loose Rock	Çü. Yd.	8 5 54 8254488
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	⊋aidd irrÐ	Acre	126.00 126.00 126.00 126.00 89.00 80.00
Olearing		Acre	80.00 1126.00 100.00 100.00 100.00 100.00
Contract Number			22.22.22.22.22.22.22.22.22.22.22.22.22.

1916—Continued.
SEPTEMBER,
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Culvert Logs in Place Logs for Bridge Birlingers Stringers		Adi.	8.88
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	Rip Rap, Hand Placed	Ou. Yd.	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	Overhaul, per each 100 feet	X d.	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
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EST Ped Ped Ped Ped Ped Ped Ped Ped Ped Ped	поштоО	Ou.	8 8 55554588 8 8
	Grubblag	Acre	185.00 185.00
	Mearing	Acre	\$165.00 20.00 175.00 5.00
	Contract Number		222222222222222222222222222222222222222

CONTRACT PRICES ON STATE BRIDGES, APRIL, 1915, TO SEPTEMBER 30, 1916.

Con-	STREAM CROSSED	варшаа	1	EXTRA O	EXTRA CONORETE	11	, ie
No.		CODOTTO	Price	1st Class	1st Class 2nd Class	Estimate	Completed
706	Robel Wat creek	One 40.44 monamete evolv	80.08	5	8	201	70 97 101F
প্ল		468-ft. cantilever	8			20.006 50	Jan. 17, 1916
87	Mashel river.	One 80-ft. concrete arch.	7.860 00	15 00	15 00 814 00	16 106 6	May 25, 1916
2448	Little Spokane river	One 70-ft.				2,777 50	Apr. 22, 1916
244P	Little Spokane river	One 75-ft. concrete arch				8,610 00	Apr. 22, 1916
248	Skokomish river	196-ft. rfve					Not completed
23	Oreek	One 40-ft. concrete arch	2,000 00	90 01		2,500 00	Aug. 15, 1916
8		One 45-ft, concrete arch		13 50		1,987 00	Aug. 1, 1916
둟		One 45-ft. concrete arch		18 00		2,096 00	Sept. 2, 1916
8		One 20-ft, concrete arch		16 00			Sept. 1, 1916
2018 18	-	Two 100-ft, concrete arches		12 50			Not completed
200	-	Two 65-ft. concrete arches		12 50			Not completed
2010	-	One 30-ft. concrete arch		12 50			Not completed
267d	.	One 50-ft. concrete arch.	2,780 00	26 21:			Not completed
717	_	TWO 20-IL. Spans, T-Deam Dridge	4,434 0/	8	25 25		Not completed

FINANCIAL STATEMENT, PUBLIC HIGHWAY FUND.

	Appropriated for Biennium Ending March 31, 1917	Total Expended	Balance Oct. 1, 1916
Salary of Commissioner	\$10,090 00 \$9,600 00	\$7,446 28 29,128 40	\$2,568 77 10,471 60
SUFVEYS	20,000 00	16,078 48	8,926 57
Deint ing	2,500 00	1,848 75	1,156 25
Judgment, J. M. Noble	1,722 29	1,722 29	
Judgment, Peter Hunley	54 96 18 40	18 40	54 98
Relief W. J. McIntyre	10 40	10 70	
bonds	80,480 00	17,240 00	18,240 00
Skagit river bridge	1.818 71	1,049 22	269 49
Lewiston-Clarkston bridge	85,000 00	88,145 87	1,854 13
Mashel bridge	*39,664 59	89,664 59	
Mayneld bridge	*80,241 50	80,241 50	
Central Washington Highway— Ritzville northerly	59,086 00	38,301 88	20,784 12
Pasco northerly		80,801.00	25,000 00
Inland Empire Highway		•••••••	20,000 00
Kennewick westerly	84,886 00	27,087 61	7,248 39
Ellensburg to North Yakima	10,000 00	9,386 48	613 52
Colville south	29.518.00	21,301 86	8,216 14
Walla Walla westerly	2,181 92	2,131 92	
Walla Walla westerly	29,518 00	29,496 51	21 49
Walla Walla mortheasterly	8,891 57	8,891 57 22,965 64	6,552 36
Snokene southerly	29,518 00 8,076 74 8,069 09	8,076 74	0,002 80
Spokane southerly	8,069 00	8,009.09	
Colfax north and south	47.008.00	47,008 00	
Rosalia south	. 27,008 00	20.682 91	6,325 09
Pullman to Idaho	80,000 00	29,378 08	621 92
Maintenance, north of Snake river	1,096 72	1,096 72	
Maintenance, south of Snake river McClellan Pass Highway—	2,680 81	2,630 81	
Enumelaw to Rainier National Park	4,198 64	4,198 64	1
Natches to Rainier National Park	834 11	884 11	
Enumelaw to summit of Cascades North Yakima to summit of Cascades	86,027 00	51,067 69	84,959 81
North Yakima to summit of Cascades	57,850 00	57,339 30	10 70
National Park Highway—			1
Ceres to ocean	4,821 85 72,000 00	4,821 85	40 010 04
Alder to Elbe	10,000 00	29,787 74 8,646 68	42,212 26 1,353 37
Mineral to Morton	66,798 91	66,798 91	1,000 01
Olympic Highway—	,		
Mud Bay to McCleary	88,500 00	38,500 00	
Near Lake Quiniault	48,175 00	89,292 96	8,882 05
Shelton to Quilcene	96,250 00	90,297 52	5,962 48
Lake Crescent	9,625 00	9,541 48	88 57
Toledo to Vancouver	192,500 00	167,352 06	25,147 97
Renton to Kent	34,387 00	2,008 44	82,378 56
Olympia to Tacoma	49,125 00	46,450 71	2,674 29
North of King county line	147,877 00	147,877 00	
North of King county line	50,000 00		50,000 00
Sunset Highway—	A ATA TA		1
North Bend to Cle Elum	81,853 59 78,600 00	81,853 59 85,209 88	43,390 62
North Bend to Cle Elum	29,475 00	28,074 96	6,400 04
Douglas county	59,086 00	57,404 58	1.631 42
Douglas county Lincoln county	59,086 00	59,036 00	
Reardan westerly	265 99	265 99	
maintenance—Wenatchee to Idano state			I
line	411 18	411 18	
Maintenance—Wenatchee to Renton	9,241 56	9,241 56	1

FINANCIAL STATEMENT, PUBLIC HIGHWAY FUND—Continued.

	Appropriated for Blennium Ending March 81, 1917	Total Expended	Balance Oct. 1, 1916
State Boad No. 4—Ferry county	12,861 99 54,950 00 20,000 00 186 18 29,518 00 5,000 00 58 19 29,518 00	\$29,181 87 2,367 90 12,361 99 52,740 15 1,488 54 173 61 29,515 73 4,875 05 29,187 68 19,684 77 104,076 00 96,329 13 45,407 47 36,500 21	\$536 63 2 45 2,209 85 18,511 46 12 57 2 27 124 95 53 19 880 32 3,430 87 189 53 18,440 79
Totals	\$2,335,166 84	\$1,982,250 79	\$402,915 55

^{* \$4,684.59} and \$241.50 transferred from National Park Highway, Mineral to Morton, to Mashel Bridge and Mayfield Bridge, respectively.

Section Two FEDERAL AID ROAD ACT

"An act to provide that the United States shall aid the states in the construction of rural post roads and for other purposes," was passed by the Sixty-fourth Congress and approved by President Wilson on July 11th, 1916.

In a general way the act provides \$85,000,000 for co-operative highway construction of two classes during the next five years. Of this total, \$10,000,000 is to be expended for the survey, construction and maintenance of roads and trails within or partly within the national forests. This portion of the appropriation is available only upon condition that a co-operative agreement is made between the state, territory or county and the secretary of agriculture. It is also provided that the aggregate expenditures in any state, territory or county shall not exceed 10 per cent of the value, as determined by the secretary of agriculture, of the timber and forage resources which are or will be available for income upon the national forest lands within the respective county or counties wherein the roads or trails will be constructed.

Of the \$75,000,000 available for construction or improvement of roads that are now covered by rural mail, the sum of \$5,000,000 will be available for the fiscal year ending June 30, 1917; \$10,000,000 for 1918; \$15,000,000 for 1919, \$20,000,000 for 1920; and \$25,000,000 for 1921. Of these sums, 3 per cent is to be held for Federal administrative expenses.

The allotments to the states made by the secretary of agriculture are based upon the following factors: (1) The ratio of the area of each state to the total area of all states; (2) the ratio of population of each state to the population of all states; (3) the ratio of the mileage of rural delivery routes and star routes of each state to total mileage of rural delivery routes and star routes in all the states at the close of the next preceding fiscal year.

In order to obtain Federal aid under the provisions of this act, it is required that a statement of the proposed road con-

struction in which national assistance is desired be submitted to the secretary of agriculture for his approval. Upon approval of the project the surveys, plans, specifications and estimates are then submitted. After they are approved the state officials are at liberty to go ahead with the proposed work. The national treasury will pay the federal share of the cost of the work, not to exceed \$10,000 per mile, after the same has been inspected and approved by the secretary of agriculture. This portion must not exceed one-half the cost of the project. The construction work is to be done in accordance with the laws of the state, and under the direct supervision of the Highway Department, subject, however, to the inspection and approval of the secretary of agriculture.

Under the provisions of this act, none of the money appropriated for the construction or improvement of rural mail or star route postal service roads can be used, except the state contributes at least an equal amount for the road upon which the money is to be applied. It also requires that the states or their civil subdivisions maintain the roads constructed under this act. The subsequent co-operation on the part of the Federal government in the construction of roads under this act is conditioned upon the proper maintenance and preservation of any roads constructed under the act.

The apportionment to the State of Washington for the fiscal year 1917 under the provisions of this act are as follows:

For the construction of roads along the routes covered by postal service, the sum of \$71,884.28.

For the surveys, construction and maintenance of roads and trails in or partly within national forests the sum of \$91,739.00.

Any project initiated by a civil subdivision of the state must be approved by the Highway Department and transmitted through this office to the Federal department.

The rules and regulations issued by the United States Department of Agriculture under date of Sept. 1, 1916, to be applied in the expenditure of federal aid money and governing surveys, plans, specifications, estimates, contract, construction work and payments are so comprehensive that the United States

Office of Public Roads and Rural Engineering will practically have control of all work for which application for Federal aid is made. They provide that applications for Federal aid in the construction of roads within or partly within the national forests, for the first fiscal year ending June 30, 1917, shall be filed on or before October 1, 1916, and for each succeeding fiscal year on or before the 1st day of January next preceding such fiscal year. It is, therefore, required that applications for the second fiscal year, July 1, 1917, to June 30, 1918, shall be filed on or before January 1, 1917. Considering that the rules and regulations were only issued on September 1, the practical effect is that the program for the first two fiscal years, covering the apportionment of about \$183,478.00 to this state, must be worked out between now and next January.

As a tentative program for the first two fiscal years, the following was submitted to the district forester and secretary of agriculture for their consideration. In all cases the amounts stated are suggested for government co-operation, at least an equal amount to be contributed toward the proposed project by state or county provisions:

(1)	Olympic Highway—Two miles in the Olympic National Forest west of Lake Quinault	\$15,000
(2)	State Road No. 7, or Blewett Pass Highway—To complete said road through the Wenatchee National	
	Forest	37,500
(3)	State Road No. 8, or Columbia River Highway—To complete said road between Collins and Cooks, through	•
	the Columbia National Forest	25,000
(4)	McClellan Pass Highway—Co-operation in a progressive program which will complete said highway through the Rainier National Forest within the next four	•.
	years	60,000
(5)	State Road No. 4—Construction across the summit section of the Colville National Forest between Wau-	45.00
	conda and Republic	15,000
(6)	State Road No. 12—Improvement and extension of the highway up the Methow Valley in the Chelan Nation-	
	al Forest	7,500
(7)	Inland Empire Highway—Improvement and extension of	•
	the highway along Kettle River to Laurier	15,000
	Total	\$175,000

If a co-operative program along somewhat the above lines is agreed upon by the district forester and secretary of agriculture, this Department recommends the program to the legislature for action thereon. With this program in mind, this Department has asked the secretary of agriculture to give priority to those co-operative applications for national forest roads as presented by the state, or by any of the counties which are a part of the designated system of state highways. While many of the county proposals of unquestionable merit have been presented for lateral routes, offering excellent opportunities for forest resource development, it is the opinion of this Department that only such as have given proof of exceptional and urgent necessity should be given precedence over the state highway program.

In some cases the counties affected will co-operate in such highway construction, and this Department has recommended that priority be given to all such county applications. To date applications from the following counties have been referred to the district forester and secretary of agriculture, with the recommendations of this Department: Whatcom, Okanogan, Skamania, Lewis, Jefferson, Kittitas, Chelan, Grays Harbor.

For highway construction during the first fiscal year, under the provisions of section 8 of the Federal aid road act, formal application was made on September 19, 1916, for Federal co-operation for the survey, construction and maintenance of a portion of the Olympic highway lying within the Olympic national forest, for which section, approximately two miles in length, the full cost (not exceeding \$20,000) was applied for. In the way of co-operation in this construction, it is recommended that the section from the end of the present constructed road near the southeast corner of Lake Quinault to the forest reserve boundary, approximately $3\frac{1}{2}$ miles in length, be constructed out of the appropriation now in hand and that available after the appropriations are made by the 1917 legislature.

While pledging co-operative construction of the \$½-mile section between the forest section and the existing constructed highway, the state in no way limits itself from additional co-operative construction extending northwesterly from the forest section towards the Queets river.

Section Three PERMANENT HIGHWAYS

ADAMS COUNTY.

CONTRACTS COMPLETED.

		COST					
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface	
Asphalt macadam Gravel and crushed rock Totals	6.75 16.74 28.49	\$67,547 60 77,219 00 \$184,766 00	\$17,828 00 24,856 00 \$41,884 00	\$8,288 00 \$8,288 00	\$86,786 00 52,868 00 \$89,649 00	\$0.58 0.299	

The gravel and crushed rock roads shown in the table were initiated by petition of the abutting property owners and 15 per cent of the cost of the improvements was assessed to the abutting property, as provided by law.

Permanent Highway No. 2-A, an extension of Permanent Highway No. 2 from Lind to Ralston, is now under construction. The improvement, 12.5 miles in length, was initiated by petition of the abutting property owners, who will pay 15 per cent of the cost. The specifications provide for a crushed gravel surface 16 feet in width. The contract price, \$52,473.20, includes the construction of seven reinforced concrete arch bridges of Luten design and of the following dimensions: One 45-foot arch 78° skew; one 45-foot arch; two continuous 38-foot arches 30° skew; one 38-foot arch 25° skew; one 22-foot arch 70° skew; one 30-foot arch 60° skew, and one 22-foot arch 60° skew.

ASOTIN COUNTY.

The contract for the construction of Permanent Highway No. 1, 1.0 mile of asphalt macadam extending from Asotin northerly on the Clarkston road, was awarded in May, 1914, for \$25,590.00, of which \$4,590.00 was to be paid from county

funds. The improvement has been completed, but the final estimate has not been paid. This is the only permanent highway in Asotin county which has been completed to date.

The preliminary resolution providing for the construction of the Clarkston-Silcott cutoff has been approved.

BENTON COUNTY. CONTRACTS COMPLETED.

		COST					
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface	
Waterbound macadam*. Gravel and crushed rock		\$7,489 00 70,851 00 \$77,790 00	\$12,812 00		\$57,589 00	\$0.810	

^{*}Cost of grading and surfacing not available.

Sixteen and 84-100 miles of the roads shown in the table are along the route of the Inland Empire Highway.

Plans have been approved for grading and surfacing with gravel 6.3 miles of road extending from Hanford southerly at an estimated cost of \$19,486.00.

CHELAN COUNTY. CONTRACTS COMPLETED.

				COST		
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Gravel and crushed rock	12.81	\$92,988 00	\$48,061.00	\$26,040 00	\$23 ,812 00	\$0.192

Of the roads shown in the table, one mile is on State Road No. 7 and 4.0 miles are on the Sunset Highway. A reinforced concrete arch bridge having two 80-foot and two 90-foot spans of Luten design was constructed across the Wenatchee river near Leavenworth on Permanent Highway No. 5, at an expense of \$20,694.00.

Permanent Highway No. 8, 1.02 miles of gravel road, extending from Wenatchee northerly, is now under construction at a contract price of \$26,466.00. The contract includes a steel bridge having two 80-foot through plate girders and two 168-foot 9-inch deck truss spans which span the Wenatchee river and the Great Northern railway. The construction of this bridge will eliminate a dangerous grade crossing of the Great Northern railway.

CLALLAM COUNTY. CONTRACTS COMPLETED.

				COST		
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Gravel and crushed rock	12.56	\$51 ,708 00	\$81,238 00	\$7,277 00	\$13,198 00	\$0.128

Two and one-tenth miles of the roads shown in the table are on the route of the Olympic Highway.

Plans have been approved for the construction of 8.35 miles of gravel roads at an estimated cost of \$22,191.00.

CLARKE COUNTY.
CONTRACTS COMPLETED.

				COST		
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Burface
Concrete	2.86 1.80 5.00 2.30	\$84,866 60 25,755 00 39,489 00 12,854 00	\$8,105 00 1,602 00 19,008 00		\$81,261 00 24,158 00 20,481 00	\$1.164 1.427 0.685
Totals	11.96	\$111,964 00				

^{*} Cost of grading and surfacing not available.

Of the roads shown in the table, 2.86 miles of concrete, 1.8 miles of Warrenite and 1.0 mile of waterbound macadam are on the Pacific Highway and 1.1 miles of waterbound macadam

are on State Road No. 8. Two and 36-100 miles of the concrete roads listed above were paid for on the assessment plan, the adjoining property paying 15 per cent of the cost.

Permanent Highway No. 3-A, a continuation of Permanent Highway No. 3, westerly from Camas on State Road No. 8, is now under contract for \$7,896.50. The proposed improvement, 1.23 miles in length, is to be surfaced with waterbound macadam.

Permanent Highway No. 6, extending westerly from the Pacific Highway about one mile north of Salmon creek, is now under contract for \$7,998.20. The proposed improvement, 1.64 miles in length, is to be surfaced with waterbound macadam.

COLUMBIA COUNTY. CONTRACTS COMPLETED.

		COST					
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface	
Waterbound macadam Waterbound macadam.	8.70 2.00	\$37,445 00 4,250 00	\$10,832 00 4,250 00		\$26,618 00	\$0.436	
Totals	10.70	\$41,695 00	\$15,082 00		\$26,613 00		

^{*}Only grading contract completed.

Of the roads shown in the table 4.7 miles are on the Inland Empire Highway and 6.0 miles are on the eastern route of the Inland Empire Highway.

Permanent Highway No. 1-A, 1.3 miles on the eastern route of the Inland Empire Highway between Dayton and Marengo, is now under contract to be surfaced with crushed rock at a contract price of \$5,567.00.

Permanent Highway No. 2-A, 5.23 miles on the Inland Empire Highway between Dayton and the west county line, is now under contract to be surfaced with gravel at a contract price of \$16,875.00.

COWLITZ	COUNTY.
CONTRACTS	COMPLETED

		COST					
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface	
Concrete	1.80 2.50 1.00	\$10,440 00 \$9,676 00 11,628 00	\$1,061 00 25,705 00 8,198 00		\$9,879 00 18,971 00 8,480 00	\$1.025 0.802 0.485	
Totals	4.80	\$61,744 00	\$84,964 00	ļ	\$26,780 00		

Of the roads shown in the table, 1.0 mile of crushed rock and 2.5 miles of asphalt macadam are on the Pacific Highway and 1.3 miles of concrete are on State Road No. 15. The 1.3 miles of concrete road was paid for under the assessment plan whereby the adjoining property paid 15 per cent of the cost.

The preliminary resolution of the board of county commissioners to improve a section of the Pacific Highway north and south of Castle Rock has been approved; right of way difficulties, however, have prevented the county officers from getting the improvement under way.

DOUGLAS COUNTY.

	1			008T	-	
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Waterbound macadam Gravel and crushed rock	3.66 4.25	\$30,000 00 23,167 00	\$18,068 00 16,366 00		\$11,937 00 6,801 00	\$0.848 0.196
Totals	7.91	\$53,167 00	\$34,429 00		\$18,738 00	

Of the roads shown in the table, 3.66 miles of waterbound macadam and 2.75 miles of gravel and crushed rock are on the Sunset Highway.

Permanent Highway No. 4, extending from Mansfield easterly, is now under contract for \$19,879.58. The proposed improvement is 3.95 miles in length and is to be surfaced with gravel or crushed rock.

FERRY COUNTY. CONTRACTS COMPLETED.

		COST					
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface	
Gravel and shell rock	2.84	\$18,000 00	\$8,050 00		\$4,950 00	\$0.189	

The roads shown in the table extend from Republic northeasterly and are on State Road No. 4.

Permanent Highway No. 1-B, a one-mile extension of the Republic northeasterly road, is now under contract to be surfaced with gravel or shell rock for the sum of \$8,000.00.

FRANKLIN COUNTY.

				COST		
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Concrete dolarway Asphaltic macadam	3.00 2.00	\$21,904 00 25,896 00	\$8,925 00 9,226 00		\$17,979 00 16,669 00	\$1.425 1.580
Totals	5.00	\$47,799 00	\$18,151 00		\$34,648 00	

The following roads are now under contract:

Permanent Highway No. 8, four miles of gravel road extending northeast from Eltopia, at a contract price of \$10,-700.00.

Permanent Highway No. 4, three miles of gravel road extending from Kahlotus northeast, at a contract price of \$17,-000.00.

Permanent Highway No. 5, 2.56 miles of gravel road extending from Kahlotus southwest at a contract price of \$15,-686.00.

All of the roads shown in the table, and Permanent Highway No. 3 now under contract, were initiated by petition whereby 15 per cent of the cost is assessed to the adjoining property.

GARFIELD COUNTY.

				OOST		
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Waterbound macadam Orushed rock	1.00 8.00	\$12,128 00 9,250 00	\$5,879 00 3,190 00			\$0.666 0.287
Totals	4.00	\$21,878 00	\$8,569 00		\$12,809 00	

The roads shown in the table are on the eastern route of the Inland Empire Highway.

Plans have been approved for the construction of 1.5 miles of road extending westerly from Pomeroy at an estimated cost of \$6,018.32. The specifications call for a crushed rock surface.

GRANT COUNTY.
CONTRACTS COMPLETED.

		COST				
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Gravel	28.08	\$98,837 00	\$35,303 00	\$2,881 00	\$65,653 00	\$0.308

Of the roads shown in the table 11.09 miles are on the Sunset Highway and 11.21 miles are on the North Central Highway.

Permanent Highway No. 6-A, 6.54 miles of gravel road extending from Quincy to Winchester, is now under contract for \$11,975.00.

Permanent Highway No. 8, 3.12 miles of gravel road extending west from Warden, is now under contract for \$6,-

408.50. The specifications call for a gravel surface 12 feet wide to be placed on a road previously graded by the county.

GRAYS HARBOR COUNTY.

CONTRACTS COMPLETED.

				COST		
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Concrete Sheet asphalt Gravel Gravel	5.40 1.86 25.96 6.10	\$84,298 00 14,500 00 82,671 00 28,191 00	\$4,484 00 844 00 21,069 00		\$29,854 00 14,155 00 62,632 00	\$1.00 1.068 0.347
Totals	38.82	\$155,680 00				

^{*}Cost of grading and surfacing not available.

Of the roads shown in the table, 1.36 miles of asphalt, 5.4 miles of concrete and 24.46 miles of gravel are on the Olympic Highway.

Permanent Highway No. 12, 4.22 miles of gravel on the East Hoquiam road, is now under contract for \$24,831.39. Permanent Highway No. 13, one mile of sheet asphalt on the Olympic Highway at McCleary, is now under contract for \$15,-490.90.

ISLAND COUNTY. CONTRACTS COMPLETED.

		COST				
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Gravel	4.00	\$10,587 00	\$6,88 6 00		\$3, 701 00	\$0.128

Permanent Highway No. 2-A, 3.0 miles of gravel road on the Coupeville-Langley road extending from Lin's Corner to Bay View, is now under contract for \$4,965.00.

JEFFERSON COUNTY. CONTRACTS COMPLETED.

		COST					
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface	
Gravel	1.50 5.00	\$11,880 00 27,480 00	\$10,062 00		\$1,318 00	\$0.117	
Totals	6.50	\$38,860 00					

*Cost of grading and surfacing not available.

Three and one-half miles of the roads shown in the table are on the Olympic Highway south of Quilcene.

Permanent Highway No. 3, 2.58 miles of gravel road on the Olympic Highway north of Leland, is now under contract for \$12,986.00.

KING COUNTY.
CONTRACTS COMPLETED.

		COST					
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface	
Concrete Brick Warrenite Asphaltic macadam Asphaltic macadam	1.70 6.02	\$44,148 00 556,890 00 48,860 00 82,719 00 90,841 00	\$18,907 00 66,184 00 11,277 00 1,558 00	\$1,100 00	\$30,236 00 490,256 00 81,483 00 31,161 00	\$0.906 2.209 1.596 1.888	
Gravel and crushed rock. Gravel and crushed rock*	40.80 3.25	298,963 00 22,596 00	196,255 00	5,887 00	92,321 00	0.257	
Totals	77.98	\$1,084,514 00					

"Oost of grading and surfacing not available.

Of the roads shown in the table, 7.9 miles of gravel are on the Sunset Highway and 3.5 miles of brick, 3.25 miles of gravel and 2.5 miles of Warrenite are on the Pacific Highway.

The following improvements are now under contract:

Permanent Highway No. 2-C, 3.63 miles of brick road from Bothell to Hollywood and 1.29 miles of concrete road from Bothell north to the county line on the Pacific Highway, at a contract price of \$84,400.00.

Permanent Highway No. 2-D, an extension of Permanent Highway No. 2-C from Woodinville to Derby. The improvement is to be paved with brick at a contract price of \$21,-169.00.

Permanent Highway No. 6-A, extending from the east end of Permanent Highway No. 6 to Kent, a distance of 1.35 miles. The easterly end, 0.23 mile in length, is to be paved with concrete and the remainder is to be surfaced with gravel. The contract price, \$29,495.00, includes the cost of a reinforced concrete bridge of two 75-foot spans across the White river.

Permanent Highway No. 11, a concrete road extending from Enumclaw toward Buckley, 3.25 miles, at a contract price of \$52,755.00.

Permanent Highway No. 11-A, a concrete road extending westerly from Enumclaw 2.54 miles on the McClellan Pass Highway, at a contract price of \$41,351.00.

Permanent Highway No. 12-A, a gravel road extending northerly from Renton 3.84 miles, at a contract price of \$44,-965.00.

Permanent Highway No. 13, a gravel road extending from Enumclaw easterly 1.62 miles on the McClellan Pass Highway, at a contract price of \$16,093.00.

Permanent Highway No. 14, a road extending southerly from Seattle over Bond roads Nos. 12 and 13 to the Des Moines dock, a distance of 9.63 miles, to be paved with monolithic brick, for \$222,691.22.

Plans have been approved for the construction of Permanent Highway No. 2-E, at an estimated cost of \$21,225.69. The proposed improvement extends from Bothell to Kirkland.

KITSAP COUNTY.
CONTRACTS COMPLETED.

				008T		
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Gravel	4.18	\$3 6,618 00	\$82,726 00		\$8,887 00	\$0.128

Permanent Highway No. 1-B, an extension of Permanent Highway No. 1 southwesterly through Port Orchard, is now under contract. The contract price for grading the portions that lie outside of the city limits, and for surfacing the entire improvement with crushed rock is \$4,794.90.

Permanent Highway No. 4, 1.27 miles of graveled road on Bainbridge Island, is now under contract for \$4,649.00.

KITTITAS COUNTY.

				COST		
TYPE PAVEMENT	Length Miles	Total .	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Concrete dolarway Brick	1.70 1.20 23.80	\$18,885 00 24,589 00 64,814 00	\$942 00 16,849 00		\$18,835 00 28,597 00 47,965 00	\$1.128 2.124 0.298
Totals	26.70	\$107,088 00	\$17,291 00		\$90,89 7 00	

Of the roads shown in the table, 14.05 miles of gravel are on the Sunset Highway and 2.0 miles of gravel are on the Inland Empire Highway. The Dolarway road, 1.7 miles in length, was resurfaced with sheet asphalt in 1915 at the expense of county funds.

The following permanent highways are under contract:

Permanent Highway No. 2-B, 1.0 mile of gravel road northeast of Ellensburg, at a contract price of \$4,319.64. Perma-

nent Highway No. 3-A, 2.83 miles of gravel road on the Sunset Highway between the Teanaway river and Swauk creek, at a contract price of \$11,850.00.

Permanent Highway No. 4-B, 1.0 mile of gravel road south of Kittitas, at a contract price of \$4,722.00.

Permanent Highway No. 5-A, 1.46 miles of gravel road on the Inland Empire Highway south of Ellensburg, at a contract price of \$5,000.00.

Permanent Highway No. 7, 3.15 miles of gravel road west of Ellensburg, at a contract price of \$12,000.00.

KLICKITAT COUNTY. CONTRACTS COMPLETED.

		COST					
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface	
Asphalt macadam Waterbound macadam	8.80 2.00	\$50,095 00 21,219 00	\$29,854 00 8,246 00		\$20,241 00 12,978 00	\$0.816 0.829	
Totals	5.80	\$71,814 00	\$88,100 00		\$33,214 00		

Four and 3-10 miles of the roads shown in the table are on State Road No. 8.

Permanent Highway No. 5, 1.9 miles of road on the Lyle-High Prairie-Goldendale road, is now under contract to be graded and surfaced with crushed rock for \$17,658.78.

The preliminary resolution has been approved for the construction of Permanent Highway No. 6 on the White Salmon-Snowden road. The proposed improvement was initiated by petition by the adjoining property holders, who are to pay 75 per cent of the cost.

LEWIS	COUNTY.
CONTRACTS	OOMPLETED.

i			COST			
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Concrete*	1.00 7.89 1.50	\$15,682 00 102,546 00 6,075 00	\$17,108 00 2,002 00		\$85,448 00 4,078 00	\$1.212 0.878
Totals	9.89	\$124,308 00				

^{*}Cost of grading and surfacing not available.

All of the roads shown in the table are on the route of the Pacific Highway.

Permanent Highway No. 2-C, 1.0 mile of concrete road on the Pacific Highway south of Chehalis, is now under contract for \$13,995.00. Permanent Highway No. 3-A, 1.06 miles of concrete road on the Pacific Highway north of Centralia, is now under contract for \$12,400.00.

LINCOLN COUNTY.
CONTRACTS COMPLETED.

		COST					
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface	
Concrete	0.50 16.80 12.58	\$1,500 00 82,080 00 46,717 00	\$23,063 00 1,889 00	\$1,950 00	\$1,500 00 57,027 00 44,828 00	\$0.426 0.496 0.881	
Totals	29.88	\$130,247 00	\$24,942 00	\$1,950 00	\$108,855 00	 	

Of the roads shown in the table, 0.5 mile of concrete, 3.17 miles of waterbound macadam and 12.53 miles of gravel are on the Sunset Highway and 13.13 miles of waterbound macadam are on the North Central Highway.

Permanent Highway No. 1-B, 12.97 miles of gravel road extending westerly from Davenport on the Sunset Highway, is now under contract for \$80,200.00.

MASON COUNTY.

CONTRACTS COMPLETED.

				COST		
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Gravel	8.98 1.00	\$26,274 00 7,169 00	\$21,684 00		\$4,590 00	\$0.128
Total	4.98	\$83,448 00				

^{*}Cost of grading and surfacing not available.

All of the roads shown in the table are on the Olympic Highway.

Permanent Highway No. 3, 1.11 miles of gravel road extending northeast of Shelton on the Shelton-Allyn road, is now under contract for \$5,188.00.

OKANOGAN COUNTY. CONTRACTS COMPLETED.

				COST		
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Gravel and crushed rock	26.00	\$48,523 00	\$24,275 00	\$1,012 00	\$18,230 00	\$0.008

Of the roads shown in the table, 14.76 miles are on State Road No. 10 and 4.63 miles are on State Road No. 12.

Permanent Highway No. 6-A, 3.71 miles of gravel road on the Havillah Hill road, is now under contract for \$7,750.00. Permanent Highway No. 10, 1.7 miles of gravel road on State Road No. 10 north of Brewster, is now under contract for \$2,000.00.

PACIFIC	COUNTY
CONTRACTS	COMPLETED

				OOST	-	
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Concrete	1.16 11.75	\$13,690 00 65,870 00	\$568 00 12,527 00	\$5,482 00 8,800 00	\$7,975 00 49,548 00	\$1.10 0.581
Totals	12.91	\$79,860 00	\$18,090 00	\$9,252 00	\$57,518 00	

Of the roads shown in the table, 1.16 miles of concrete and 10.75 miles of waterbound macadam are on the National Park Highway.

Permanent Highway No. 3-A, 1.4 miles of waterbound macadam on the Sand Ridge road north of Ilwaco, is now under contract for \$8,166.00.

Permanent Highway No. 5-A, 1.08 miles of concrete and waterbound macadam on the National Park Highway between Raymond and South Bend, is now under contract for \$20,-900.00.

PEND OREILLE COUNTY.
CONTRACTS COMPLETED.

				COST		Per
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Sq. Yd. of Surface
Gravel or crushed rock	11.09	\$40,690 00	\$25,289 00		\$ 15, 4 51 00	\$0.158

Three and one-tenth miles of the roads shown in the table are on State Road No. 23.

Permanent Highway No. 2-B, 1.25 miles of gravel road south of Usk, is now under contract for \$2,470.79. Permanent Highway No. 3-A, 1.0 mile of gravel road through the town of Metaline, is now under contract for \$3,120.05.

PIERCE COUNTY. CONTRACTS COMPLETED.

				COST		
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Concrete	28.92 3.97 6.80	\$282,882 00 60,816 00 101,948 00	\$42,351 00 6,302 00 44,860 00		\$240,081 00 54,014 00 57,088 00	\$1.049 1.406 0.864
Totals	84.69	\$444,048 00	\$98,518 00		\$351,133 00	

Of the roads shown in the table, 12.58 miles of concrete are on the Pacific Highway and 11.34 miles of concrete are on the National Park Highway.

Permanent Highway No. 2-B, 6.07 miles of bitucrete on a concrete base on the National Park Highway, is now under contract for \$95,970.00.

Permanent Highway No. 7, 3.7 miles of Warrenite re-topping on old waterbound macadam on the Buckley-Sumner road, is now under contract for \$37,843.00.

Permanent Highway No. 8, 2.12 miles of bitulithic on a concrete base on the Pacific Highway extending from Dupont southwest, is now under contract for \$34,696.00.

SAN JUAN COUNTY. CONTRACTS COMPLETED.

				COST		
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Gravel	8.09	\$11,966 00	\$7,510 00		\$4,446 00	\$0.165

Plans have been approved for the construction of 2.36 miles of crushed rock road from East Sound toward Orcas on Orcas Island, at an estimated cost of \$15,000.00.

San Juan county has a small assessed valuation and, therefore, a small income for permanent highway construction. The amount of tax for this purpose from the 1915 levy was \$2,-411.00. Chapter 104 of the Session Laws of 1918 gives this county for permanent highway purposes all taxes levied for the

public highway fund. The county's credit from the 1915 public highway levy was \$1,607.00. No permanent highway work was undertaken by San Juan county during 1916. The funds will accumulate with interest and will be available for future construction.

SKAGIT COUNTY. CONTRACTS COMPLETED.

				OOST	
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges Surface	Per Sq. Yd. of Surface
Concrete	7.73 4.00	\$91,062 00 26,059 00	\$7,610 00 2,855 00	\$2,695 00 \$80,747 00 28,704 00	\$1.182 0.868
Totals	11.73	\$117,111 00	\$9,965 00	\$2,695 00 \$104,451 00	1

A reinforced concrete cantilever girder bridge 78 feet in length was constructed across Hanson creek on Permanent Highway No. 2-A east of Sedro Woolley, for \$2,695.00. The structure is of interest because of the cantilever design.

Permanent Highway No. 4, 1.25 miles of concrete pavement on the Pacific Highway north of Mount Vernon, is now under construction for \$12.556.55.

SKAMANIA COUNTY. CONTRACTS COMPLETED.

				COST		
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Gravel or crushed rock. Gravel or crushed rock	2.10 2.64	\$11,810 00 12,458 00	\$7,808.00		\$8,507 00	\$0.235
Totals	4.74	\$23,763 00	<u></u>			· · · · · · · · · · · · · · · · · · ·

^{*} Oost of grading and surfacing not available.

The roads shown in the table are on State Road No. 8.

Permanent Highway No. 1-B, an extension of Permanent Highway No. 1 and No. 1-A, up the Little White Salmon river 1.9 miles, is now under contract to be surfaced with crushed rock for \$6,552.51.

SNOHOMISH COUNTY. CONTRACTS COMPLETED.

				OOST		
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Concrete	5.89 1.02 38.40	\$54,965 00 25,467 00 168,158 00	\$7,980 00 3,970 00 108,028 00	\$8,506 00	\$46,985 00 21,497 00 56,629 00	\$1.043 1.998 0.169
Totals	45.81	\$248,590 00	\$114,978 00	\$8,506 00	\$125, 111 00	

Twelve and 8-10 miles of the gravel roads shown in the table are on the Pacific Highway.

The following permanent highways are now under contract: Permanent Highway No. 21, 1.8 miles of gravel south of Index, for \$14,326.00.

Permanent Highway No. 22, 2.2 miles of gravel east of Marysville, for \$9,691.76.

Permanent Highway No. 24, 1.34 miles of gravel west of Hartford, for \$9,459.20.

Permanent Highway No. 25, 1.0 mile of concrete north of Marysville on the Pacific Highway for \$12,895.00.

Permanent Highway No. 26, 1.88 miles of gravel southeast of Index, for \$9,464.00.

SPOKANE COUNTY. CONTRACTS COMPLETED.

				COST		
	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Asphalt macadam*	1.50	\$18,430 00				
Asphalt macadam	88.55	333,097 00	\$185,188 00	\$4,516 00	\$198,448 00	30.612
Warrenite	1.87	19,590 00	2,449 00		17.141 00	1.319
Waterbound macadam	22.66	119,956 00	30,508 00		89,448 00	0.434
Gravel *	14.00	48,466 00				
Gravel	7.35	70,925 00	46,489 00		24,436 00	0.854
Totals	80.48	\$605,464 00	\$214,584 00	\$4,516 00	\$324,468 00	

^{*}Cost of grading and surfacing not available.

Of the roads shown in the table, 8.31 miles of waterbound macadam, 4.1 miles of asphalt macadam and 7.35 miles of graveled roads, are on the Inland Empire Highway, 1.37 miles

of Warrenite and 2.28 miles of asphalt macadam are on State Road No. 23, and 7.07 miles of asphalt macadam, 3.0 miles of waterbound macadam and 14 miles of graveled roads are on the Sunset Highway.

Of the roads shown in the table, the following were initiated by petition of the adjoining property holders: Five and 57-100 miles of asphaltic macadam, 52.77 per cent of the cost assessed to adjoining property; 25.7 miles of asphaltic macadam, 15 per cent of cost assessed; 17.2 miles of waterbound macadam, 15 per cent of cost assessed; 21.35 miles of graveled roads, 15 per cent of cost assessed.

An 80-foot reinforced concrete arch bridge was constructed across Rock creek on Palouse Permanent Highway No. 12 near Rockford at a cost of \$4,516.00.

The following permanent highways are now under contract: Permanent Highway No. 4-A, re-topping 2.49 miles of the Appleway, or Sunset Highway east of Spokane, with asphaltic concrete, for \$26,151.00.

Permanent Highway No. 9-A, 4.0 miles of asphaltic macadam between Spring Valley and North Pine for \$39,750.00.

Permanent Highway No. 11-A, 5.58 miles of asphaltic concrete on waterbound macadam base north of Cheney for \$55,-357.00, 15 per cent of cost assessed to adjoining property.

Permanent Highway No. 12-A, 11.45 miles of Warrenite with asphaltic macadam shoulders between Rockford and Waverly for \$165,500.00, 15 per cent of cost assessed.

Permanent Highway No. 13-B, 3.88 miles of asphaltic macadam on the Inland Empire Highway northwest of Deer Park for \$34,637.00; 15 per cent of cost assessed.

Permanent Highway No. 15, 1.51 miles of graveled road south of Moran for \$12,760.00, 15 per cent of cost assessed.

Permanent Highway No. 16, 1.1 miles of gravel road west of Moran for \$4,800.00, 15 per cent of cost assessed.

Permanent Highway No. 17, 1.1 miles of gravel road extending southeasterly from Seventeenth avenue on the east city limits of Spokane for \$3,197.00, 15 per cent of cost assessed.

Permanent Highway No. 18, 2.0 miles of asphaltic macadam northeast of Mead for \$8,600.00.

Plans have been approved for the construction of 1.0 mile of asphaltic macadam south of Valley Ford at an estimated cost of \$8,129.40, 15 per cent of which is to be assessed to the adjoining property.

STEVENS COUNTY. CONTRACTS COMPLETED.

				COST		
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Gravel	18.93	\$48,089 00	\$80,590 00		\$17,449 00	\$0.174

Two and one-half miles of the graveled roads shown in the table are on the route of the Inland Empire Highway.

Permanent Highway No. 1-C, an extension of Permanent Highway No. 1 from Addy toward Gifford, 3.4 miles in length, is now under contract to be surfaced with gravel for \$8,468.00.

Permanent Highway No. 2-A, an extension of the Spring-dale-Hunters Highway, 5.48 miles in length, is now under contract to be surfaced with crushed rock for \$6,000.00. The grading of this improvement has been completed at a cost of \$14,162.47.

THURSTON COUNTY. CONTRACTS COMPLETED.

				COST		
TYPE PAVEMENT	Length Miles	Total _.	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Gravel *		\$10,549 00 50,864 00	\$19,650 00	\$2,600 00	\$2 8,614 00	\$0.236
Totals	14.62	\$61,418 00				

^{*}Cost of grading and surfacing not available.

Four miles of the roads shown in the table are on the Olympic Highway and 8.62 miles are on the Pacific Highway.

Permanent Highway No. 2-B, 1.0 mile of concrete pavement east of Olympia on the Pacific Highway, is now under contract for \$14,500.00.

Permanent Highway No. S-A, 2.49 miles of gravel road northeast of Little Rock on the Olympia-Little Rock road, is now under contract for \$7,661.00.

WAHKIAKUM COUNTY.

Wahkiakum county has a small assessed valuation and, therefore, a small income for the permanent highway fund. The 1915 levy for this fund was \$3,077.00. The first improvement under the permanent highway laws was undertaken by this county in June, 1916. The contract provides for the surfacing of 5.28 miles of road with crushed rock for \$15,700.00. Work on the improvement has been suspended for the winter because of the heavy rains which make highway construction practically impossible.

WALLA WALLA COUNTY.

CONTRACTS COMPLETED.

				008T		
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Asphaltie macadam Waterbound macadam Gravel and crushed rock	8.00 22.78 5.92	\$19,197 00 116,208 00 29,218 00	\$1,021 00 14,295 00 6,588 00		\$18,176 00 101,908 00 22,875 00	\$2.49 0.484 0.409
Totals	81.70	\$164,618 00	\$22,154 00		\$142,459 00	

Of the roads shown in the table, 3.0 miles of asphaltic macadam, 18.16 miles of waterbound macadam and 3.5 miles of graveled roads are on the Inland Empire Highway.

Permanent Highway No. 11, 5.25 miles of gravel road on the Inland Empire Highway between Wallula and Touchet, is now under contract for \$17,000.00.

Plans have been approved for the construction of the following roads:

Permanent Highway No. 13, 2.46 miles of graveled road north of Walla Walla, at an estimated cost of \$7,329.00.

Permanent Highway No. 14, 1.25 miles of graveled road on the Inland Empire Highway between Touchet and Wallula, at an estimated cost of \$4,125.00.

WHATCOM COUNTY. CONTRACTS COMPLETED.

	1			COST		
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Concrete	9.30 10.66	\$127,798 00 66,701 00	\$18,335 00 23,722 00	\$4,810 00	\$109,468 00 \$8,169 00	\$1.232 0.381
Totals	19.98	\$194,499 00	\$42,057 00	\$4,810 00	\$147,682 00	

Two and 7-10 miles of the concrete roads shown in the table are on the route of the Pacific Highway.

Five miles of the concrete roads shown in the table were initiated by petition of the property owners and 50 per cent of the cost was assessed to the adjoining property.

Permanent Highway No. 2-B, 5.0 miles of concrete pavement on the Pacific Highway northwest of Bellingham, is now under contract for \$66,990.00. The improvement was initiated by petition of the adjoining property owners and 50 per cent of the cost is to be assessed to the adjoining property.

WHITMAN COUNTY. CONTRACTS COMPLETED.

				COST		
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Asphaltic macadam Waterbound macadam	18.11 2.44	\$178,578 00 17,961 00	\$55,085 00 4,187 00		\$118,548 00 18,774 00	\$0,782 0.616
Totals	20.55	\$191,589 00	\$59,222 00		\$132,217 00	

Of the roads shown in the table, 4.81 miles are on the Inland Empire Highway and 5.82 miles are on the second division of the eastern route of the Inland Empire Highway. All of the improvements were initiated by petition by the adjoining property holders and 15 per cent of the cost was assessed to the adjoining property with the exception of Permanent Highway No. 5, 2.8 miles of asphaltic macadam, 16 per cent of the cost of which was assessed.

Permanent Highways Nos. 9-A and 9-B, highways having a total length of 11.32 miles and lying between Colfax and Pullman, have been graded at an expense of \$20,905.52, and now are under contract to be surfaced with crushed rock for \$46,633.00. Fifteen per cent of the cost of the grading and surfacing is assessed to the adjoining property.

Permanent Highway No. 10, 4.72 miles on the Donahue road north of Thornton, is now under contract to be surfaced with waterbound macadam for \$41,547.00, 15 per cent of which is to be assessed to the adjoining property.

Plans have been approved for the construction of the following roads:

Permanent Highway No. 11, 3.28 miles of road east of Thornton to be surfaced with gravel at an estimated cost of \$18,270.17, 15 per cent of which is to be assessed to the adjoining property.

Permanent Highway No. 12, 12.06 miles of road between La Crosse and Le Roy to be surfaced with gravel at an estimated cost of \$38,115.30, 15 per cent of which is to be assessed.

The preliminary resolution of the board of county commissioners to improve an extension of Permanent Highway No. 10 southwest of Pullman under the permanent highway laws and assessing 30 per cent of the cost to the adjoining property has been approved.

YAKIMA COUNTY. CONTRACTS COMPLETED.

				COST		
TYPE PAVEMENT	Length Miles	Total	Grading	Bridges	Surface	Per Sq. Yd. of Surface
Asphaltie macadam* Asphaltie macadam Waterbound macadam Gravel or crushed rock.	5.06 1.50 12.85 28.82	\$19,749 00 9,247 00 55,676 00 104,788 00	\$2,342 00 12,239 00 21,022 00		\$6,905 00 43,487 00 83,716 00	\$0.496 0.415 .351
Totals	47.78	\$189,410 00				ļ

^{*}Cost of grading and surfacing not available.

Of the roads shown in the table, 3.5 miles of asphaltic macadam and 14.77 miles of graveled roads are on the Inland Empire Highway and 2.06 miles of asphaltic macadam, 2.0 miles of waterbound macadam and 4.75 miles of graveled roads are on the McClellan Pass Highway.

The following permanent highways are now under contract: Permanent Highway No. 3-C, 1.61 miles of gravel road on the Inland Empire Highway north of North Yakima, for \$8,-490.60.

Permanent Highway No. 20, 1.0 mile of gravel road west of Wapato, for \$3,180.00.

Plans have been approved for the construction of Permanent Highway No. 15-A, 1.06 miles of graveled road on the Liberty road, at an estimated cost of \$5,181.00, and for the construction of Permanent Highway No. 21, 4.0 miles of graveled road northwest of Buena at an estimated cost of \$11,947.40.

FINANCIAL STATEMENT PERMANENT HIGHWAY FUND, MAINTENANCE AND CONSTRUCTION.

MAY 1, 1916, TO SEPTEMBER 30, 1916.

COUNTIES	Amount Available May 1, 1915	Levy 1914	Levy 1915	Motor License Fund 1915-1916	Interest Oredit Jan. 1, 1916	Total Available Sept. 30, 1916	Total Expended May 1, 1915, to Sept. 30, 1916*	Balance Sept. 30, 191
Adams	\$14,925 21	00 619,188	\$34,155 00	95,095,13	1998	\$88,812 GS	\$62,712.92	986,000 15
Asoton Renton	ŠĚ	23				38		
Obelen	38	8	282			ş		
Olallam	2	2	2			2		
Clarke	8	2	2			ğ		
Oolumple June 1	Ξ.	8	2			8		
Douglas		2	88			23		
Ferry		2	Ę			2		
Pranklin		8	5	ž		3		
Garfield		8	8	8		2		
Grant		5	8 2			38		
alays marbor		8	8	38		35		
Jefferson		8	5	ş		8		
Cing		81.	2			3		
Citano		8	8	ž		8		
Kittitas		8				23		
Klickitat		2	8			Š		
		4	38			8		
Lincoln		į	į			38		
OFFICE		ĕ	ě			18		
Pacific		9	8			ğ		
Pend Orelile		¥	5			8		
Plerce		8	Š			218		
lan Juan t		3	82			\$		
Itagit		3	ğ			8		
Skamania		8	Ì			3		
Snohomish		2	8			2		
Spokane		3	58			3		
Revens		3	28			3		
Wahlahim		8	3 5			3 8		
Walls Walls		E	5	8		8		
Whatcom		8	8	ä		3		
Whitman	20,750 16	3	8			8		
(akima		8	3	ğ				

*Amount shown as expended dose not include retained percentage on contracts, nor outstanding obligations. † Includes credit from Public Highway tund. † Balance available for construction and maintenance b ut cannot be expended until paid into fund.

CONSTRUCTION
HIGHWAY
PERMANENT
STATEMENT
FINANCIAL

COUNTIES	All Levies and Interest Oredits to May 1, 1915*	Total Expended to May 1, 1915	96% of Levies for 1914 and 1915 and In- terest Oredit Jan. 1, 1916	Expended May 1, 1915, to Sept. 30, 1918	Total Levies and Interest Credits Sept. 30, 1916	Total Expended Sept. 30, 1916	Balance Sept. 30, 1916
Adams	\$100,157 08	25, 111, 72	12 780,089	\$60,256 45	\$168,194 24	\$148,870 20	20,585
Renton	3	38	Bi	8	8	85	
Chelan	įĘ	ğ	18	3	8	3 &	
Challan	3	8	8	1	E	3	
Clarke	8	큟	8	8	g	2	
Columbia	Š	1	88	8	147	8	
Cowlitz	ŝ	8	178	8	8	23	
Douglas	E	286	ğ	8	3	屋	
FOILY	8	8	5			8	
FIREMENT	n:	8	Ę	8	3	\$	
Trans	3	2	38	3	ě	3	
Trave Harbor	ġ	3 5	ğş	3	3	88	
sland 1	į	18	Ę	2	į	3 2	
efferson	3	\$	8	E	8	1	
King	8	575	2	18	20	8	
Itsap	100	8	ŝ	뎧	3	112	
Kittitas	2	3	25	Ş	8	8	
Clickitat	8	3	8	8	3	8	
AWAR	8	8	8	2	ž	5	
Jucom.	8	3	3	25	2	Þ	
New Action	28	5	ŝ	Ž.	3 8	8	
Varian	ŝ	i	38	į	8	1	
Pend Orelile	3	3	9	15	8	Š	
Pieroe	16	ř	g	8	8	8	
Ban Juan 1	28	8	8	8	3	8	
Skagit	418	612	8	5	*	3	
Skamania	200	88	뎡	数	S S	털	
nohomish delimination	8	8	8	3	8	33	
pokabe	S	E	2	3	3	3	
tevens	8	뭏	얾	8	8	8	
Durston	2	88	Z.	27,42	8	25	
Vabriakum	8	5	9	2 8	38	8	
Walls Walls	2	è.	38	19	ğ	â	
White man	5 5	ş	8	8	18	훵	
Yakima	2	180,482 11	3	2	8	8	
The state of the s	1 8	} §	8	8	8	1-	88. 646.096
TOPEN		3		-	1		

Amount is made up of State Aid balance from levice 1907, 1908, 1909 and 1910 plus Permanent Highway levice of 1911, 1912 and 1918, and
Interest credits. + Amount shown as expended does not include retained percentage on contracts nor any outstanding coligations. I Includes
rectit from Public Highway fund, chapter 104, Laws 1918. § Halance av Ailable for construction but cannot be expended until paid into fund.

FINANCIAL STATEMENT PERMANENT HIGHWAY MAINTENANCE FUND.

COUNTIES	Total All Levies to May 1, 1915*	Total Expended May 1, 1915	5% Levies 1914 and 1915	Fund Oct. 1, 1915, and April 1, 1916	May 1, 1915 to Sept. 30, 1916	Total Levies and Motor License Funds Sept. 30, 1916	Total Expended Sept. 30, 1916;	Balance Sept. 30, 191
Adams				\$7,560.90				
Asotin	26 26 26 26 26 26 26 26 26 26 26 26 26		286 35	1,887	1,081	2,512 28	1,081	25 05.1 55 05.
helan				08.818.80				
Callam		35 88 88		4,240 90				
Clarke				6,896 20				
Columbia				8,224				
OWILL				88.88				
Pouglas		88		2000				
Tankin				3 5 6 6 6				
Garffeld				150				
rant		1,824 04		26 86 91				
Grays Harbor				12,025 45				
Island +				620 24	ž			
efferson		940 00		2,492 71	92			
King				84,318 90				
Kitsap				8 72.	Ę٤			
Altitude -				1,1/6 45	8			
Author				20 36 or	9			
heoln		2.804.7		38.	2			
Kason				2,185 94	S			
Okanogan				2,913 35	엁			
Pacific				5,887	ğ			
Pend Oreille				2,214 45	چ و			
Plerce				30,121 25	2			
San Juan T				20 20 20 20 20 20 20 20 20 20 20 20 20 2	88			
OKERITE				20 00 1	3			
Skallatis		3 5 5		13 000 15				
Dokane				76 888 67	1			
Levens				10.7	8			
hurston				6,088 80	2			
7ahkiakum				36 152	:			
valla Walla				10,888 80	훩			
'batcom				89 63. 62. 63. 63. 63. 63. 63. 63. 63. 63. 63. 63	81			
Whitman		## 000°C	3.50	19.50 19.50	7,919.85		7,480 79	
- Totol	20 07 000	00 000 000	A 200 PT	-			10 100	4000

* 6% of levies of 1911, 1912 and 1913. † Includes 6% of Public Highway fund, chapter 104, Laws 1913. † Does not include any outstanding obligations. § Briance available for maintenance but cannot be expended until paid into the fund. ** Total expended \$71,088.06, refund, \$65.52.

STATEMENT OF ALL PERMANENT HIGHWAYS COMPLETED TO SEPTEMBER 30, 1916.

Miles	Miles	ON THAT TOO	April	April 1, 1911, to March 31, 1918	April :	April 1, 1918, to March 31, 1915	April	April 1, 1915, to September 80, 1916	L	rotals.
100	1.00	COONTIES	Miles	Cost	MDes	Oost	Mües	Oost	Miles	Cost
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1.00	OF A TO STATE OF A TO				3		3 5		28	
1.00 2.00	Or. 1,100 1	Allen					9 1		3 5	6
0.00 21,304,00 2,703,286,00 1,00 4,300,00 4,300,00 5,20 41,700 0.00 1,144 60,444,00 1,00 12,128,00 3,00 0,500,00 4,00 1,00 12,128,00 1,0	0.00 2.1,904 00 2.1,703 00 1,003 00 1,003 00 1,003 00 2.5,805 00 1,003 00 2.5,805 00 2.5,805 00 2.5,805 00 2.5,805 00 2.5,805 00 2.5,805 00 2.5,805 00 2.5,805 00 2.5,805 00 2.5,805 00 2.5,805 00 2.5,805 00 2.5,805 00 2.5,805 00 2.5,805 00 2.5,805 00 2.5,805 00 2.5,805 00 2.5,805 00 2.5,105 00				07.0		2.0	8	10	į
1,000 1,00	0.00 21,904 00 2,5886 00 8.00 9,250 00 4,00 2,00 4,00 2,00 4,00 2,00 4,00 2,00 4,00 2,00 4,00 2,00 4,00 2,00 4,00 2,00 <td>M.</td> <td></td> <td></td> <td>1.78</td> <td></td> <td>9.7</td> <td>8</td> <td>3.</td> <td>3</td>	M.			1.78		9.7	8	3 .	3
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OF 7, 46 29,976 00 11,00 27,480 00 1,00 27,480 00 1,00 4,00 4,00 1,00 27,480 00 1,00 4,00 4,00 1,00 27,480 00 1,00 4,00 1,00 4,00 1,00 4,00 1,00 4,00 1,00 4,00 1,00 1,00 1,00 4,00 1,00	07 7,466 259,976 11,000 63,825 00 20,366 62,386 00 20,366 62,386 00 20,366 62,386 00 20,366 62,386 00 20,366 62,386 00 20,366 00 1,004 17,766 00 1,004 17,766 00 1,004 17,766 00 1,004 17,766 1,004 17,766 1,004 17,766 1,004 17,766 1,004 17,766 1,004 17,766 1,004 17,766 1,004 17,766 1,004 17,766 1,004 17,766 1,004 17,766 1,004 17,766 1,004 17,766 1,004 17,766 1,004 17,766 1,004 17,766 1,004 17,766 <th< td=""><td>Dr</td><td>07 71</td><td>OF 787 GP</td><td> :</td><td></td><td>2</td><td>3</td><td>8</td><td>Ş</td></th<>	Dr	07 71	OF 787 GP	 :		2	3	8	Ş
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13.47 150,018 00 20,71 266,300 00 45,80 383,106 00 77,80 1,064,514 1.70	13.47 190,018 00 20.71 44,056 00 45,80 388,106 00 4.18 1.064 1.70	Brigon Brigon			3	3,480 50	3	3	3	R
1.70 18,886 00 2.10 24,808 00 2.95 33,286 00 4.13 38,613 31,614	2.06 24,066 00 2.10 11,06 11,		18.47	190,018 00	8.7	866,880 88	3 8	8	1.88	3
1.70 18,886 00 15.75 24,886 00 5.10 60,488 00 5.10 60,488 00 5.89 124,088	1,70	Q8			80.3	74.056 00	2.10	909	4.18	918
2.75 88,028 0.21,886 0.51 47,000 0.580 171,314 8.67 1.68 0.51 6.51 60,488 0.51 6.58 171,308 0.51 60,488 0.51,308 0.51 0.0488 0.51 0.05 0.0488 0.51,308 0.51 0.0488 0.51,308 0.51 0.0488 0.52 0.51 0.0488 0.52 0.51 0.0488 0.05 0.0488 0.05 0.05 0.0488 0.05 <td< td=""><td>2.10 2.4,806 00 5.30 47,006 00 5.30 47,006 00 5.30 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.</td><td></td><td>27</td><td></td><td>16.78</td><td>NS F07 00</td><td>26.0</td><td>946</td><td>22.38</td><td>ğ</td></td<>	2.10 2.4,806 00 5.30 47,006 00 5.30 47,006 00 5.30 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.		27		16.78	NS F07 00	26.0	946	22.38	ğ
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8,677 13,136 65,736 12,136 45,777 13,774 </td <td> 100 7,180 00 1,080 0 12.85 46,777 00 25.88 189 199</td> <td></td> <td>8</td> <td>A 000 00</td> <td>2 2</td> <td>3 6</td> <td>3 =</td> <td>8</td> <td>88</td> <td>8</td>	100 7,180 00 1,080 0 12.85 46,777 00 25.88 189 199		8	A 000 00	2 2	3 6	3 =	8	88	8
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12	27.89 842.697 00 6.30 101,949 00 84.69 111.73 117.73 117.73 11.68 14.590 00 2.04 7.880 00 84.69 111.73 117.73 117.73 117.73 117.83 11.84 118.8	d Oredia			8	17, 815,00	2	87.6	8	8
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12.80 29.227 00 13.86 136.451 00 1.10 7,438 00 47.45 80 00 47.41 80 00 47.45 80 00	7.70 0.90,908 00 4.08 74,748 00 4.74 20 4.74 20 50 50 50 50 50 50 50 50 50 50 50 50 50	man			8:	3 AZT 6	8:3	8	3	8
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12.80 29,227 00 13.86 138,431 00 18.66 28,882 00 45.81 248,500 24.68 120,891 00 29.24 226.00 20.66 20.56	12.80 24.183 120,891 00 18.86 188,481 00 18.66 201,882 00 45.81 248 605 60,48	mania			20.00	16.880 00	1.10	2	4.74	8
24.58 120,891 00 25.24 222,800 30.66 226,938 00 30.66 005,464 66.68 11.43 87.86 00 2.50 10,005 00 13.89 46,009 13.89 46,009 14.68 14.68 14.68 14.68 14.68 14.68 14.68 14.68 14.68 14.68 14.69 00 14.63 14.6	24.68 135,81 00 29.14 228,80 00 23.66 220,286 00 33.66 220,286 00 36.46 606 4.60 10,540 00 8.60 11,48 77,84 00 2.68 13,39 48	hornish	8		20 25	188 487 00	28	8	5	8
2.5.00 10,549 00 3.60 11,487 00 6.52 10,056 00 13.99 46,089 4.50 10,549 00 8.60 14,887 00 6.52 85,987 00 14,687 00 6.52 85,987 00 14,687 00 16,66 14,687 00 16,66 10,679 00 81,70 10,418	2.4.50 10,549 00 13.99 40 10,056 00 13.99 40 14,620 13.99 40 1				33		3	3	18	Ì
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Section Four STATE QUARRIES

The history of the installation and operation of the five rock quarries owned by the state has been outlined to a certain extent in each the third, fourth and fifth biennial reports of the State Highway Commissioner. It is desirable at this time, however, to make a brief review of the various phases of the operation of the quarries, which may have some bearing on the future policy to be pursued in the operation of them.

Chapter 226, Laws of 1907, provided for the installation and operation of rock crushing plants in different sections of the state, and the state geologist was authorized and directed to select sites where suitable rock could be obtained. The following sites were selected and approved: Fidalgo in Skagit county, Meskill in Lewis county, Dixie in Walla Walla county, Selah in Yakima county and Marshall in Spokane county.

Plans were prepared and contracts for machinery and materials for plants at Fidalgo, Meskill, Selah and Marshall were awarded in May, 1909, by the board of control.

In November, 1909, the handling of the quarries was placed in the hands of the Highway Commissioner.

In October, 1910, at the request of the Highway Commissioner the quarries were again placed in the hands of the board of control.

During the 1909-10 biennium, \$124,000 was appropriated for construction and operation of the quarries. The appropriation was inadequate to complete the work outlined, Meskill and Fidalgo only, being placed in operation during that time.

The 1911 legislature appropriated the following sums:

On April 1st, 1911, by action of the legislature the management of the quarries was transferred from the board of control to the Highway Commissioner. At this time Fidalgo was the

only one of the five plants which had been completed. However, a small crushing plant belonging to Lewis county was in operation by the state at Meskill, the work on the present plant having been started in August, 1911.

At Selah the crushing plant was only partly installed.

At Dixie nothing had been done in the way of construction.

At Marshall quarry, construction was about as far advanced as at Selah.

Operation was started at the various quarries on the following dates: Meskill, May, 1910; Fidalgo, August, 1910; Selah, June, 1911; Marshall, April, 1912; Dixie, April, 1912.

To obtain power to operate the quarries, money was advanced by the state to build four power lines. These are the property of the companies furnishing power, and the money so advanced is repaid to the state by a rebate of 25 per cent on monthly power bills. On September 30th, 1916, the accounts for these sums advanced stand as follows:

		Oreassa	
Quarry	Amt. Advanced	from Rebate	Balance
Meskill	\$4,000 00	\$1,912 99	\$2,087 01
Selah	2,600 82	514 24	2.086 58
Dixie	3,040 41	591 51	2,448 90
Marshall	5,000 00	68 97	4,931 08

The prospect of the state ever receiving credit for the amounts advanced seems doubtful.

The general plan of construction is practically the same at the five institutions. Owing to the prospective demand for crushed rock, the plan at the time was evidently to construct permanent plants. Where possible, all heavy machinery is set on concrete foundations. The bunkers, with the exception of Fidalgo, where water is the only means of transportation, are located so as to discharge by gravity, directly into the railroad cars stored on the quarry sidings.

The main crushers are No. 6 Austin gyratory type and auxiliary crushers of the same type are provided to reduce the oversized material.

Electricity is used as the motive power at all plants, and each machine is driven by an individual motor. Air compressor plants

provide power for the Burley drills in all pits with the exception of Dixie, where coyote holes are driven by hand.

All buildings are of frame construction throughout, with the exception of the power house at Fidalgo, which is covered with corrugated galvanized sheet iron. All camp buildings are well constructed, sealed, painted and electrically lighted. The quarters for the convicts are surrounded by a stockade, a portion of which is formed by one side of the two-story building containing the office, commissary and the free employees' quarters. The convict quarters are one story structures, and include two bunk houses, lobby, dining room, kitchen, pantry, laundry, meathouse, drying room, dungeons, and, like the free employees' quarters, toilets and bath. In addition to the above mentioned buildings, superintendents' cottages of the same general construction are provided at Dixie, Selah, Marshall and Meskill. Water under pressure is piped to all parts of the camps and sewer systems provide the necessary sanitation.

The quarries are now self-sustaining institutions, there being no appropriations except the rotary fund, which is established by the legislature, and which is credited with the sale of all products from all the institutions, and from which all costs of operation, maintenance and improvements are paid.

The organization at the quarries, when running at full capacity, consists of seven free men and about thirty-four convicts.

The institutions serve as parole camps for the convicts employed in them. A credit of one year's time is extended to the men for nine months' service. Under the "indeterminate sentence law" convicts are given a minimum and a maximum term, and the plan is to place such convicts in the service as will have served their minimum sentences by the time their nine months of service expires and will be eligible to discharge at the expiration of that time.

Upon requisition from the Highway Department, the prison board selects such men as are eligible and desire to accept the conditions controlling the quarry service. The men are well fed, comfortably clothed, and provided with well-equipped, sanitary quarters.

In general, the men prefer to serve in the quarry rather than in the penitentiary, and the results of their labor show a marked degree of efficiency.

The original plan followed in the construction of the five state quarries was to furnish rock at a low cost for the construction of state and state aid roads. The specifications being written by the Highway Department provided for the use of all sizes of rock in the proportions produced. Since the completion of the plants, the state aid law has been abolished, and the permanent highway law substituted in the place of same, and little surfacing has been done on state roads by the state.

The permanent highway law places the construction of such roads under the control of the various county authorities. All quarries, with the exception of Fidalgo, are located along the line of the Northern Pacific railway, and that company tenders a special rate of one cent per ton per mile for the first fifty miles, and $\frac{3}{4}$ of a cent per ton per mile thereafter until a rate of 75 cents is reached. For the distances in excess of 100 miles, a straight rate of $\frac{3}{4}$ cent per ton per mile applies, and \$5.00 is the minimum rate.

But even with this special rate, the transportation cost limits the zone in which the quarry product can be profitably used, and as an economic measure, many counties have installed their own crushing plants, and are also surfacing with gravel.

The plants as orginally designed, each produced about 250 cubic yards per day in the following sizes and proportions:

Counties using the state quarry products have changed the constructive methods and use only a small proportion of the largest sized material.

Heretofore a greater percentage of the smaller sizes of rock was obtained by closing the openings of the crusher and re-crushing as much of the number one rock and over-sized material as possible by passing it through the auxilliary crusher. However, there is practically no demand for No. 1 rock any more. The orders received are for about equal quantities of No. 2 and No. 3 rock. In order to meet the demand for the smaller sizes of rock during the present biennium, it has been necessary to install crushing rolls at the Meskill and Dixie quarries. The rock chutes have been rearranged so that either the No. 1 or No. 2, or over-flow, as desired may be run through the rolls. In this way the output of the various sizes may be regulated as required, but with the production of a greater percentage of the smaller sizes of rock, the capacity of the plant has been reduced to about 200 cubic yards per day.

It is possible to pass about 100 cubic yards of No. 1 rock (passing through a three-inch screen) through the rolls per day of eight hours, the finished product giving about equal percentages of No. 2 and No. 3 rock. Unless there is an over supply of No. 2 rock, it does not pay to run this size through the rolls inasmuch as the additional amount of No. 3 rock obtained by doing so is very small. With the installation of the rolls, we are able to supply the quantity of No. 3 rock demanded for road work.

Of the five quarries, Meskill and Dixie are the only ones that have been in operation during the present biennium. Dixie quarry was closed on September 30th, 1915. Meskill will probably be closed for some time during the present winter when orders are all filled. The future of these two quarries, the only ones which have been operated successfully, is apparently a matter of conjecture, and depends entirely upon the demands of the territory in their immediate vicinity.

During the period of suspended operation the small and spasmodic demands for the products of Fidalgo, Marshall and Selah, have not justified their operation. Watchmen, whose salaries are paid from the rotary fund, at the expense of the operating plants, are employed at Marshall and Fidalgo.

The following is a brief description of the five state quarries:

FIDALGO.

This institution is located on Deception Pass, on the south side of Fidalgo Island, in Skagit county. The grounds, which are about 34 acres in area, are leased from the war department of the Federal government. The quarry is located about 100 feet above the water in the face of a very steep cliff. The power plant, stockade, offices, etc., are located about 2,000 feet east of the quarry on a bench averaging about 50 feet above the water's elevation. There are no wagon or railroads leading to this institution and the only transportation facility is by the waters of Puget Sound.

The rock is crushed at the pit and delivered by means of a chute to the screen house below, where it is sorted into the various sizes and delivered to the storage bunker located at the water's edge.

The storage bunker is divided into five compartments and has a capacity of 2,500 cubic yards. Each compartment is provided with two outlet spouts which discharge onto a loading device which is designed so as to be moved along the front of the bunker from one compartment to another. This loader, provided with an endless belt arrangement, discharges the rock onto the scows lying in deep water.

All the machinery at the quarry is driven by electric motors. The power is generated by a three-phase, 100-kilowatt generator, which is driven by a 16x24-inch simple non-condensing Corliss engine and transmitted to the quarry at a distance of about 2,000 feet. A 26,000 gallon reinforced concrete tank holds the supply of fuel oil for the 150-horsepower tubular boiler.

Compressed air is piped 2,000 feet to the pit from the compressor for the operation of the drills. To facilitate loading of shipment for interior points, an electrically operated clam shell bucket was installed at the Milwaukee Railway Company's terminal dock in Seattle.

The quarters within the stockade are equipped for the accommodation of seventy convicts, and the institution is equipped in every detail.

The cliff to the rear of the crusher-house rises to an almost perpendicular height of 130 feet, and is separated from the face of the main rock body by a crevasse, the bottom of which is about 40 feet above the elevation of the crusher. Large quantities of rock have become detached and fallen into the crevasse and it appears that it is only a question of time before the whole mass will slip into the bay carrying the entire plant with it. The plant has been idle since December, 1912, and as it now stands, its natural tendency is a constant physical depreciation.

The sum of \$79,009.46 was expended on this institution prior to operation and the total receipts from the sale of its products are \$27,554.17.

MESKILL.

This plant is located on the South Bend branch of the Northern Pacific railway, thirteen miles west of Chehalis in Lewis county on the northern bank of the Chehalis river.

The quarry grounds originally belonged to Lewis county, but were donated to the state on April 1st, 1911, and in that year the legislature appropriated \$35,000.00 for the erection of a new plant.

The power is furnished by the Washington-Oregon Corporation at a rate of two cents per kilowatt hour. The state contributed \$4,000 toward the cost of the construction of a transmission line and a contract with the power company provides for a refund of 30 per cent. of the monthly power bills.

The camp is equipped for the accommodation of forty-eight convicts. The property consists of an area of 160 acres which is heavily timbered and covered with brush.

The floor of the quarry pit is about 14 feet above the elevation of the railway track and it is necessary to elevate the crushed material to the screening house. The bunkers have a storage capacity of 760 cubic yards. Owing to the lay of the land surrounding the quarry, the maximum depth of the face of the pit is about 60 feet. The over-burden averages about 6 feet in depth and requires the continuous employment of two or more men for its removal.

Up to this time the institution has operated at a profit. In order to meet the present demands of the summer season for No. 2 and No. 3 rock crushing rolls have been installed to handle the oversize and surplus supply of No. 1 rock.

Since the completion of the plant, the total receipts and accounts receivable for crushed rock up to the close of the biennium amounted to \$131,739.17. The sum of \$47,475.67 was expended in the construction of this institution prior to the beginning of operation.

SELAH.

This institution is located in Yakima county just east of the village of Selah on the main line of the Northern Pacific railway. The state owns the quarry site which consists of an area of 18.65 acres. The camp site is located about three-eighths of a mile west of the crushing plant and is constructed upon right-of-way leased from the Northern Pacific Railway Company.

The quarry is located in the south bluff of the Yakima river, the steep slope of which gives a deep face to the pit and permits blasting by the coyote hole method.

The floor of the quarry pit is about 80 feet above the elevation of the railway company's tracks and the plant is constructed so as to eliminate the use of elevators. The material, when once placed in the primary crusher, passes by gravity through the various screens, auxiliary crusher, and bunkers to the cars. The bunker is divided into five compartments with a combined capacity of 760 cubic yards.

The power is furnished by the Pacific Power & Light Company, and the transmission line was built by that company at

a cost of \$2,600 and was paid for by the state. The contract provides for the furnishing of light and power at the rate of 2½ cents per kilowatt hour and the repayment to the state at the rate of 25 per cent of monthly bills.

Owing to lack of orders it has not been operated since September, 1913.

Since the completion of the plant, the total receipts for crushed rock up to the close of the biennium amounted to \$32,-714.51. The cost of construction prior to the beginning of operation was \$51,847.58.

MARSHALL.

This institution is located on a spur track of the Palouse branch of the Northern Pacific railway about one and one-half miles south of Marshall Junction in Spokane county. The site, consisting of 41 acres, was purchased by Spokane county and deeded to the state.

The floor of the quarry is about 13 feet above the track and it is necessary to elevate the crushed material to the screening-house. The bunker is divided into five compartments, the combined capacity of which is 412 cubic yards. The power line was built by the Washington Water Power Company at a cost to the state of \$5,000.00. A contract with that company provides for the payment of \$2½c per kilowatt hour for power and light, and a rebate of 25 per cent of monthly power bills to the state for money advanced for construction of the line.

The construction of the plant is the same as outlined under the general description of the quarries and the camp which is located on a hill about one-fourth of a mile northeast of the quarry is equipped for the accommodation of forty-eight convicts.

At the time this plant was constructed it was contemplated that Spokane county and city would be its principal support, but orders from those places have not materialized and the plant has operated but little since its completion, the same being idle since April 30, 1912.

Since the completion of the plant, the total sales of the products thereof amount to \$4,497.44.

The cost of the plant prior to the beginning of operation was \$37,929.86.

DIXIE.

The Dixie institution is located in Walla Walla county, eleven miles northeast of Walla Walla, at Dixie, on the Dayton branch of the Northern Pacific railway.

The site, consisting of 17.14 acres, was purchased by the state. The pit is located in the side of a very steep hill which gives great depth of face to the quarry and permits economic blasting by the coyote hole method. The camp is equipped for the accommodation of 48 convicts.

The floor of the quarry is level with the railway track and all material is elevated to the screens. The bunker is divided into three compartments with a combined capacity of 450 cubic yards.

The power and light is furnished by the Pacific Power and Light Company at a rate of 2½c per kilowatt hour. The power line cost \$6,080.82, the state paying half of same. A contract with the power company provides for a reimbursement of 25 per cent of the monthly power bills.

Walla Walla county has used the greatest portion of its products.

Since the completion of the plant, the total receipts and accounts receivable for crushed rock up to the close of the biennium amounted to \$55,496.63. The cost of the plant prior to the beginning of operation was \$42,787.93.

STATEMENT OF \$100,000.00 QUARRY ROT	ARY FUND.
Appropriation	\$100,000 90 185 79 159 28
Total expended and obligated, Oct. 1, 1916	50,495 07
Balance	\$49,504 93
OPERATION OF ROTARY FUND).
OCTOBER 1, 1914, TO APRIL 1, 1915	i .
Net cash balance on hand, state treasurer,	183 54 162 69
Total credit April 1, 1915	
Cost of operation, Oct. 1, 1914, to April 1, 1915	
Net cash balance on hand, state treasurer, April 1; 1	915 \$25,928 15
APRIL 1, 1915, TO OCTOBER 1, 191	6.
Deposited with treasurer, April 1, 1915, to Oct. 1,	928 15 567 56
Clothing and shoes 1, General supplies and expense quarry 1, Power, light and heat 8, Repairs and tools 5, Powder and blasting supplies 2, Medical and surgical Escapes Transportation of convicts 1.	\$69,495 71 256 30 307 96 32 82 310 80 117 78 447 48 363 02 181 36 117 79 126 51 131 68 150 46
Total	47,887 91
Net cash balance on hand, state treasurer, Oct. 1, 19 Checks and warrants on hand and at bank for collection Accounts receivable	
Total resources	\$26,168 10
Liabilities-Accounts Payable.	
Seian Quarry	842 02 70 00
Net resources rotary fund	\$21,108 82

COST OF OPERATION.

,	1916
	8
COSI OF OFERENSION	BEPTEMBER
5	Ş
5	1914,
2	÷,
5	OCTOBER

OLASSIFICATION	Fidalgo	Meskill	Belah	Marshall	Dixie	Total
Salaries and Wages	00 983° m	E1,454 06	\$1,660 00	81,440 00	98,897 1.8	12 67, 438 24, 478 24
Clothing and about General expense quarry 155 00	156 00	1,848 08	51 00 12 108	28	E 22	2,119 11,98 119 12 13
Power, light and heat. Repairs and tools.	44 80	2,774 5,006 96 98	81 35	25.	26.5 26.5 26.5 26.5 26.5 26.5 26.5 26.5	7,887 50 2,887 46
Medical and surgical		585 38			8 E	2 88 88 88 88
Excapes Transportation of convicts		272 1,216 88			8 5	1,288 27,888 27,288
General expense Olympia, Permanent improvements 76.88	76 88	1,444 01	88 11	88 11	1,216 76 585 50	2,758 88 4,880 77
Totals	\$6 218'18	\$87,780 96	\$1,828 33	20 197,14	\$20,873 \$1	\$68,256 99

PERIOD OF OPERATION.

OCTOBER 1, 1914, TO SEPTEMBER 80, 1916.

QUARRY	Time in Operation	Time Operation Suspended	Per Cent. Time Operating
Fidalgo Meskili Selah Dixie Marshall	No months	24 months	No
	24 months	No months	100
	No months	24 months	No
	12 months	12 months	50
	No months	24 months	No

PRODUCTION.

OCTOBER 1, 1914, TO SEPTEMBER 30, 1916.

QUARRY	No. 1	No. 2	No. 3	Nos. 1 and 2	Nos. 2 and 8	R.R.	Total
Fidalgo	7,845	24,147	12,788	1,679.08	714	462 16	47,130.08 16
Dixie	15,468	9,298	9,828				84,584
Totals	22,818	88,440	22,606	1,679.08	714	478	81,780.08

In order to obtain a comprehensive idea of the standing of the quarries in a financial way, and the degree of success as a business venture, a complete statement of the appropriations, receipts, and expenditures from the passage of the act in 1909, providing for the installation and operation of the rock-crushing plants, to date, has been prepared.

COST OF CONSTRUCTION OF QUARRIES. FROM APRIL 1, 1909, TO MARCH 51, 1918.

	Appropriation	Expended	Reverted
General fund, 1909	100,000 00 5,000 00	\$24,000 00 100,000 00 890 67 135,000 00	\$4,169 88
	\$254,000 00	\$259,890 67	\$4,160 3B

EXPENDITURES SEGREGATED AS FOLLOWS:

QUARRY	Field Examina- tions, 1909	General Fund 1909	Highway Fund 1909	Highway Fund 1911	Total
Fidalgo	••••••••••••••••••••••••••••••••••••••	\$12,822 78 8,100 74 8,809 71 4,695 27 71 50	\$65,579 15 9,375 98 12,796 95 11,749 11 497 86	\$1,107 58 \$5,000 00 \$5,238 92 21,484 98 42,168 57	\$79,009 46 47,475 67 51,847 58 87,929 86 42,787 98 890 67
Total	\$890 67	\$24,000 00	\$100,000 00	\$185,000 00	\$239,890 67

